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\* \* \* \* \* STN Columbus \* \* \* \* \*

FILE 'HOME' ENTERED AT 08:36:47 ON 08 JAN 2007

=> file reg

COST IN U.S. DOLLARS

SINCE FILE

TOTAL

ENTRY

SESSION

FULL ESTIMATED COST

0.42

0.42

FILE 'REGISTRY' ENTERED AT 08:37:48 ON 08 JAN 2007

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STRUCTURE FILE UPDATES:    7 JAN 2007    HIGHEST RN 916885-50-2

DICTIONARY FILE UPDATES:   7 JAN 2007    HIGHEST RN 916885-50-2

New CAS Information Use Policies, enter HELP USAGETERMS for details.

TSCA INFORMATION NOW CURRENT THROUGH June 30, 2006

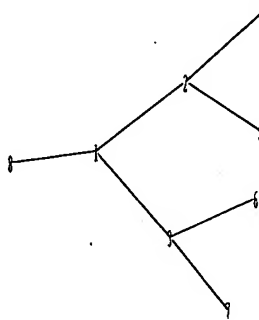
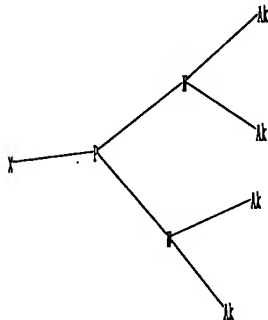
Please note that search-term pricing does apply when conducting SmartSELECT searches.

REGISTRY includes numerically searchable data for experimental and predicted properties as well as tags indicating availability of experimental property data in the original document. For information on property searching in REGISTRY, refer to:

<http://www.cas.org/ONLINE/UG/regprops.html>

=>

Uploading C:\Program Files\Stnexp\Queries\10539210a.str



chain nodes :

1 2 3 4 5 6 7 8

chain bonds :

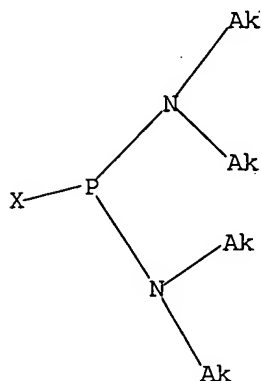
1-2 1-3 1-8 2-4 2-5 3-6 3-7

exact/norm bonds :  
1-2 1-3 2-4 2-5 3-6 3-7  
exact bonds :  
1-8

Match level :  
1:CLASS 2:CLASS 3:CLASS 4:CLASS 5:CLASS 6:CLASS 7:CLASS 8:CLASS

L1 STRUCTURE UPLOADED

=> d  
L1 HAS NO ANSWERS  
L1 STR



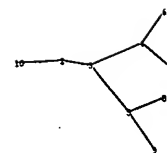
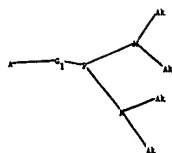
Structure attributes must be viewed using STN Express query preparation.

=> s l1 full  
FULL SEARCH INITIATED 08:38:00 FILE 'REGISTRY'  
FULL SCREEN SEARCH COMPLETED - 5868 TO ITERATE

100.0% PROCESSED 5868 ITERATIONS 1418 ANSWERS  
SEARCH TIME: 00.00.01

L2 1418 SEA SSS FUL L1

=>  
Uploading C:\Program Files\Stnexp\Queries\10539210.str



chain nodes :

2 3 4 5 6 7 8 9 10

chain bonds :

2-3 2-10 3-4 3-5 4-6 4-7 5-8 5-9

exact/norm bonds :

2-3 2-10 3-4 3-5 4-6 4-7 5-8 5-9

G1:O,S

Match level :

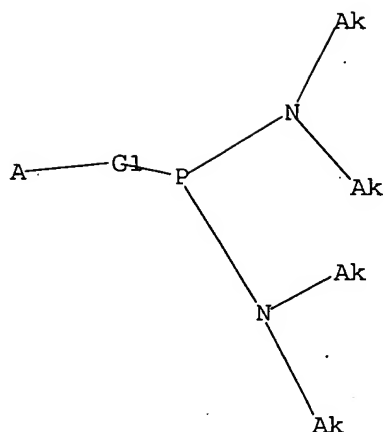
2:CLASS 3:CLASS 4:CLASS 5:CLASS 6:CLASS 7:CLASS 8:CLASS 9:CLASS 10:CLASS

L3 STRUCTURE UPLOADED

=> d

L3 HAS NO ANSWERS

L3 STR



G1 O,S

Structure attributes must be viewed using STN Express query preparation.

=> s l3 full

FULL SEARCH INITIATED 08:38:29 FILE 'REGISTRY'  
 FULL SCREEN SEARCH COMPLETED - 33951 TO ITERATE

100.0% PROCESSED 33951 ITERATIONS 2529 ANSWERS  
 SEARCH TIME: 00.00.01

L4 2529 SEA SSS FUL L3

=> file caplus

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	343.75	344.17

FILE 'CAPLUS' ENTERED AT 08:38:34 ON 08 JAN 2007  
 USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.  
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FILE COVERS 1907 - 8 Jan 2007 VOL 146 ISS 3  
 FILE LAST UPDATED: 7 Jan 2007 (20070107/ED)

Effective October 17, 2005, revised CAS Information Use Policies apply. They are available for your review at:

<http://www.cas.org/infopolicy.html>

=> s l2 and l4

1654 L2  
 3010 L4

L5            381 L2 AND L4

=> s 15 and alcohol  
257867 ALCOHOL  
169308 ALCOHOLS  
395298 ALCOHOL  
              (ALCOHOL OR ALCOHOLS)  
583314 ALC  
192399 ALCS  
681236 ALC  
              (ALC OR ALCS)  
834779 ALCOHOL  
              (ALCOHOL OR ALC)

L6            40 L5 AND ALCOHOL

=> s 15 and ?anol  
764747 ?ANOL

L7            69 L5 AND ?ANOL

=> d 16 1-10

L6 ANSWER 1 OF 40 CAPLUS COPYRIGHT 2007 ACS on STN  
 AN 2005:471844 CAPLUS  
 DN 143:28318  
 TI Micronized wood preservative formulations  
 IN Leach, Robert M.; Zhang, Jun  
 FA USA  
 SO U.S. Pat. Appl. Publ., 21 pp., Cont.-in-part of U.S. Ser. No. 821,326.  
 CODEN: USXXCO  
 DT Patent  
 LA English  
 FAN.CNT 6

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI US 2005118280	A1	20050602	US 2004-970446	20041021
US 2004258767	A1	20041223	US 2004-821326	20040409
WO 2006047126	A2	20060504	WO 2005-US37303	20051018
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GR, GU, HD, IL, IN, IS, JP, KE, KG, KH, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, LY, MA, MD, ME, MG, MH, MI, MN, MO, MP, MQ, MR, MU, NA, NC, NE, NG, NI, NO, NZ, OM, PA, PE, PG, PH, PL, PT, PU, PY, QZ, RE, RO, RU, SC, SE, SG, SK, SL, SM, SN, SV, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TH				
US 2006257578	A1	20061116	US 2006-354726	20060215
PRAI US 2003-461547P	P	20030409		
US 2003-518994P	P	20031111		
US 2004-821326	A2	20040409		
US 2004-568485P	P	20040506		
US 2004-565585P	P	20040427		
US 2004-570659P	P	20040513		
US 2004-970446	A	20041021		
US 2005-126839	A2	20050511		

L6 ANSWER 3 OF 40 CAPLUS COPYRIGHT 2007 ACS on STN  
 AN 2002:509532 CAPLUS  
 DN 137:201392  
 TI Design, Synthesis, and Biological Evaluation of Indolequinone Phosphoramidate Prodrugs Targeted to DT-diaphorase  
 AU Harnick, Marcy; Flader, Carolee; Borch, Richard F.  
 CS Department of Medicinal Chemistry and Molecular Pharmacology and the Cancer Center, Purdue University, West Lafayette, IN, 47907, USA  
 SO Journal of Medicinal Chemistry (2002), 45(16), 3540-3548  
 CODEN: JMCMAH; ISSN: 0022-2623  
 PB American Chemical Society  
 DT Journal  
 LA English  
 OS CASREACT 137:201392  
 RE.CNT 32 THERE ARE 32 CITED REFERENCES AVAILABLE FOR THIS RECORD  
 ALL CITATIONS AVAILABLE IN THE RE FORMAT

L6 ANSWER 2 OF 40 CAPLUS COPYRIGHT 2007 ACS on STN  
 AN 2003:971591 CAPLUS  
 DN 140:28164  
 TI Process for preparation of block polymers by radical polymerization controlled with dithiophosphate esters  
 IN Destarac, Mathias; Leising, Frederic; Taton, Daniel; Dureault, Alex; Gnanou, Yves; Majoral, Jean Pierre; Marchand, Patrice; Caminade, Anne Marie  
 PA Rhodia Chimie, Fr.  
 SO Fr. Demande, 38 pp.  
 CODEN: FROXBL  
 DT Patent  
 LA French  
 FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI FR 2840613	A1	20031212	FR 2002-7022	20020607
WO 2003104288	A1	20031218	WO 2003-FR1705	20030606
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, GR, GU, HD, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, ME, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PH, PL, PT, PU, RO, RU, SC, SD, SE, SG, SK, SL, TJ, TH, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TH, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
AU 2003251114	A1	20031222	AU 2003-251114	20030606
PRAI FR 2002-7022	A	20020607		
WO 2003-FR1705	W	20030606		
RE.CNT 2 THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS RECORD ALL CITATIONS AVAILABLE IN THE RE FORMAT				

L6 ANSWER 4 OF 40 CAPLUS COPYRIGHT 2007 ACS on STN  
 AN 2002:200702 CAPLUS  
 DN 136:349749  
 TI The first iminoamidophosphite ligand: synthesis and complexation with rhodium(I)  
 AU Gavrilov, K. N.; Bondarev, O. G.; Polosukhin, A. I.; Lyubimov, S. E.; Tzarev, V. N.  
 CS Nesmeyanov Institute of Organoelement Compounds, Russian Academy of Sciences, Moscow, 117813, Russia  
 SO Russian Journal of Coordination Chemistry (Translation of Koordinatsionnaya Khimiya) (2002), 28(2), 143-145  
 CODEN: RJCCYJ; ISSN: 1070-3284  
 PB MAIK Nauka/Interperiodica Publishing  
 DT Journal  
 LA English  
 OS CASREACT 136:349749  
 RE.CNT 11 THERE ARE 11 CITED REFERENCES AVAILABLE FOR THIS RECORD  
 ALL CITATIONS AVAILABLE IN THE RE FORMAT

L6 ANSWER 5 OF 40 CAPLUS COPYRIGHT 2007 ACS on STN  
 AN 2000:376020 CAPLUS  
 DN 133:164102  
 TI Fluorinated phosphorus compounds. Part 1. The synthesis and reactions of  
 some fluoroalkyl phosphoryl compounds  
 AU Timperley, C. M.; Bird, M.; Broderick, J. F.; Holden, I.; Morton, I. J.;  
 Waters, M. J.  
 CS Chemical and Biological Defence Sector, Defence Evaluation and Research  
 Agency, Salisbury, Wiltshire, SP4 0JQ, UK  
 SO Journal of Fluorine Chemistry (2000), 104(2), 215-223  
 CODEN: JFLCAR; ISSN: 0022-1139  
 PB Elsevier Science S.A.  
 DT Journal  
 LA English  
 OS CASREACT 133:164102  
 RE.CNT 18 THERE ARE 18 CITED REFERENCES AVAILABLE FOR THIS RECORD  
 ALL CITATIONS AVAILABLE IN THE RE FORMAT

L6 ANSWER 6 OF 40 CAPLUS COPYRIGHT 2007 ACS on STN  
 AN 1997:181081 CAPLUS  
 DN 126:186316  
 TI Preparation of L-ascorbic acid 2-phosphate  $\alpha$ -hydroxy acid esters  
 having excellent storage stability  
 IN Horizaki, Kazuo; Sasaki, Masanao; Ozaki, Shoichiro; Watanabe, Yutaka  
 PA Kanto Denka Kogyo Kk, Japan; Ozaki, Shoichiro  
 SO Jpn. Kokai Tokkyo Koho, 11 pp.  
 CODEN: JYXXAF  
 DT Patent  
 LA Japanese  
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
FI	JP 09020790	A	19970121	JP 1995-167638	19950703
	JP 3619287	B2	20050209		
PRAI	JP 1995-167638		19950703		
OS	MARPAT 126:186316				

L6 ANSWER 7 OF 40 CAPLUS COPYRIGHT 2007 ACS on STN  
 AN 1995:868733 CAPLUS  
 DN 124:87148  
 TI Reaction of trivalent phosphorus compounds with sterically hindered  
 N-chloroamines  
 AU Kolodiazhnyi, Oleg I.; Golovaty, Oleg R.  
 CS Inst. of Bioorganic Chemistry, National Academy of Sciences of Ukraine,  
 Kiev, 253094, Ukraine  
 SO Phosphorus, Sulfur and Silicon and the Related Elements (1995), 102(1-4),  
 133-41  
 CODEN: PSSLEC; ISSN: 1042-6507  
 PB Gordon & Breach  
 DT Journal  
 LA English  
 OS CASREACT 124:87148

L6 ANSWER 8 OF 40 CAPLUS COPYRIGHT 2007 ACS on STN  
 AN 1995:273379 CAPLUS  
 DN 123:112591  
 TI Use of Npe-protecting groups for the preparation of  
 oligodeoxyribonucleotides without using nucleophiles during the final  
 deprotection  
 AU Avino, Anna Maria; Eritja, Ramon  
 CS CID, CSIC, Barcelona, 08034, Spain  
 SO Nucleosides & Nucleotides (1994), 13(10), 2059-69  
 CODEN: NUNUDS; ISSN: 0732-8311  
 PB Dekker  
 DT Journal  
 LA English  
 OS CASREACT 123:112591

L6 ANSWER 9 OF 40 CAPLUS COPYRIGHT 2007 ACS on STN  
AN 1994:269228 CAPLUS  
DN 120:269228  
TI A convenient method for the transformation of alcohols into  
alkyl trifluoromethyl sulfides  
AU Kolomeitsev, A. A.; Chabenenko, K. Yu.; Roeschenthaler, G. V.;  
Yagupolskii, Yu. L.  
CS Inst. Org. Chem., Kiev, 253660, Ukraine  
SO Synthesis (1994), (2), 145-6  
CODEN: SYNTBF; ISSN: 0039-7881  
DT Journal  
LA English  
OS CASREACT 120:269228

L6 ANSWER 10 OF 40 CAPLUS COPYRIGHT 2007 ACS on STN  
AN 1994:107134 CAPLUS  
DN 120:107134  
TI Transformations of thiocyanalkyl phosphites and amidophosphites  
AU Nuretdinova, O. N.; Novikova, V. G.; Troitskaja, L. B.  
CS A. E. Arbuzov Inst. Org. Phys. Chem., Kazan, 420083, Russia  
SO Izvestiya Akademi Nauk, Seriya Khimicheskaya (1992), (11), 2673-5  
CODEN: IASKEA; ISSN: 1026-3500  
DT Journal  
LA Russian  
OS CASREACT 120:107134



=> d 16 1-10 ibib abs hitstr

L6 ANSWER 1 OF 40 CAPLUS COPYRIGHT 2007 ACS on STN  
ACCESSION NUMBER: 2005:471844 CAPLUS  
DOCUMENT NUMBER: 143:28318  
TITLE: Micronized wood preservative formulations  
INVENTOR(S): Leach, Robert M.; Zhang, Jun  
PATENT ASSIGNEE(S): USA  
SOURCE: U.S. Pat. Appl. Publ., 21 pp., Cont.-in-part of U.S. Ser. No. 821,326.  
CODEN: USXXCO  
DOCUMENT TYPE: Patent  
LANGUAGE: English  
FAMILY ACC. NUM. COUNT: 6  
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 2005118280	A1	20050602	US 2004-970446	20041021
US 2004258767	A1	20041223	US 2004-821326	20040409
WO 2006047126	A2	20060504	WO 2005-0537303	20051018

V: AE, AG, AL, AM, AT, AU, AZ, BA, BE, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, LY, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW

RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM

US 2006257578 A1 20061116 US 2006-354726 20060215  
PRIORITY APPLN. INFO.: US 2003-461547P P 20030409  
US 2003-518994P P 20031111  
US 2004-821326 A2 20040409  
US 2004-568485P P 20040506  
US 2004-565585P P 20040427  
US 2004-570659P P 20040513  
US 2004-970446 A 20041021  
US 2005-126839 A2 20050511

AB The wood preservative compns. comprising micronized particles. The composition comprises dispersions of micronized metal or metal compds. The wood preservative composition comprises an inorg. component comprising a metal or metal compound and organic biocide. When the composition comprises an inorg. component and an organic biocide, the inorg. component or the organic biocide or both are present as micronized particles. When used for preservation of wood, the micronized particles can be observed as uniformly distributed within the wood and there is minimal leaching of the metal and biocide from the wood.

IT 115-26-4, Dimefox 152-16-9, Schradan  
RL: BUU (Biological use, unclassified); TEM (Technical or engineered material use); BIOL (Biological study); USES (Uses)  
(micronized wood preservative formulations comprising inorg. metal compds. and organic biocides)  
RN 115-26-4 CAPLUS  
CN Phosphorodiamidic fluoride, tetramethyl- (6CI, 7CI, 8CI, 9CI) (CA INDEX NAME)

L6 ANSWER 2 OF 40 CAPLUS COPYRIGHT 2007 ACS on STN  
ACCESSION NUMBER: 2003:971591 CAPLUS  
DOCUMENT NUMBER: 140:28164  
TITLE: Process for preparation of block polymers by radical polymerization controlled with dithiophosphate esters  
INVENTOR(S): Destarac, Mathias; Leising, Frederic; Taton, Daniel; Dureault, Alex; Gnanou, Yves; Majoral, Jean Pierre; Marchand, Patrice; Caminade, Anne Marie  
PATENT ASSIGNEE(S): Rhodia Chimie, Fr.  
SOURCE: Fr. Demande, 38 pp.  
CODEN: FRXXBL  
DOCUMENT TYPE: Patent  
LANGUAGE: French  
FAMILY ACC. NUM. COUNT: 1  
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
FR 2840613	A1	20031212	FR 2002-7022	20020607
WO 2003104288	A1	20031218	WO 2003-FR1705	20030606

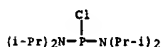
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RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG

AU 2003251114 A1 20031222 AU 2003-251114 20030606  
PRIORITY APPLN. INFO.: FR 2002-7022 A 20020607  
WO 2003-FR1705 W 20030606

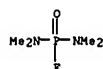
AB The block copolymers are prepared through a 1st stage by radical polymerization of a mixture containing 21 unsatd. monomer, a free radical initiator, and 21 dithiophosphoro ester compound having 21 P-N bonding to give a living polymer which can be further polymerized to a block copolymer. An example of such dithiophosphoro ester is Ph2NP(S)(SCH2Ph)2 (preparation given).

IT 56183-63-2P  
RL: IMF (Industrial manufacture); RCT (Reactant); PREP (Preparation); RACT (Reactant or reagent)  
(process for preparation of block polymers by radical polymerization controlled with dithiophosphate esters)  
RN 56183-63-2 CAPLUS  
CN Phosphorodiamidous chloride, tetrakis(1-methylethyl)- (9CI) (CA INDEX NAME)

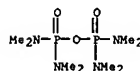


IT 632285-75-7P  
RL: IMF (Industrial manufacture); RCT (Reactant); PREP (Preparation); RACT (Reactant or reagent)  
(telogen; process for preparation of block polymers by radical polymerization)

L6 ANSWER 1 OF 40 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

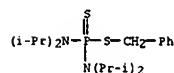


RN 152-16-9 CAPLUS  
CN Diphosphoramide, octamethyl- (9CI) (CA INDEX NAME)



L6 ANSWER 2 OF 40 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)  
controlled with dithiophosphate esters)

RN 632285-75-7 CAPLUS  
CN Phosphorodiamidodithioic acid, tetrakis(1-methylethyl)-, phenylmethyl ester (9CI) (CA INDEX NAME)



REFERENCE COUNT: 2 THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

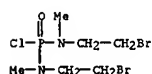
L6 ANSWER 3 OF 40 CAPLUS COPYRIGHT 2007 ACS ON STN

ACCESSION NUMBER: 2002:509532 CAPLUS  
DOCUMENT NUMBER: 137:201392  
TITLE: Design, Synthesis, and Biological Evaluation of Indolequinone Phosphoramidate Prodrugs Targeted to DT-diaphorase  
AUTHOR(S): Hernick, Marcy; Flader, Carolee; Borch, Richard F.  
CORPORATE SOURCE: Department of Medicinal Chemistry and Molecular Pharmacology and the Cancer Center, Purdue University, West Lafayette, IN, 47907, USA  
SOURCE: Journal of Medicinal Chemistry (2002), 45(16), 3540-3548  
CODEN: JMCMAH; ISSN: 0022-2623  
PUBLISHER: American Chemical Society  
DOCUMENT TYPE: Journal  
LANGUAGE: English  
OTHER SOURCE(S): CASREACT 137:201392

AB 2- And 3-substituted indolequinone phosphoramidate prodrugs targeted to DT-diaphorase (DTD) were synthesized and evaluated. These compounds (e.g. (5-methoxy-1-methyl-4,7-indolequinone-2-yl)methyl N,N-bis(2-bromoethyl)phosphoramidate) are designed to undergo activation via quinone reduction by DTD followed by expulsion of the phosphoramidate mustard substituent from the hydroquinone. Chemical reduction of the phosphoramidate

prodrugs led to rapid expulsion of the corresponding phosphoramidate anions in both series of compounds. Compounds substituted at the 2-position are excellent substrates for human DTD (kcat/KM = (2-5) x 10<sup>6</sup> M<sup>-1</sup> s<sup>-1</sup>); however, compounds substituted at the 3-position are potent inhibitors of the target enzyme. Both series of compounds are toxic in HT-29 and BE human colon cancer cell lines in a clonogenic assay. There was a correlation found between cytotoxicity and DTD activity for the 2-series of phosphoramidates; however, there was no correlation between cytotoxicity and DTD activity in the 3-series of compounds. This finding suggests an alternative mechanism for the activation of these compounds. 452971-56-1, N,N'-bis(2-bromoethyl)-N,N'-dimethylphosphorodiamidic chloride

IT RL: RCT (Reactant); RACT (Reactant or reagent)  
(condensation with hydroxymethyl-substituted indolequinone)  
RN 452971-56-1 CAPLUS  
CN Phosphorodiamidic chloride, N,N'-bis(2-bromoethyl)-N,N'-dimethyl- (9CI) (CA INDEX NAME)



IT 318974-70-8P  
RL: BSU (Biological study, unclassified); PAC (Pharmacological activity); PRP (Properties); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)  
(preparation and evaluation of indolequinone phosphoramidates as prodrug targeted to DT-diaphorase)  
RN 318974-70-8 CAPLUS  
CN Phosphorodiamidic acid, N,N'-bis(2-bromoethyl)-N,N'-dimethyl-, (4,7-dihydro-5-methoxy-1-methyl-4,7-dioxo-1H-indol-3-yl)methyl ester (9CI) (CA INDEX NAME)

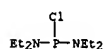
L6 ANSWER 4 OF 40 CAPLUS COPYRIGHT 2007 ACS ON STN

ACCESSION NUMBER: 2002:200702 CAPLUS  
DOCUMENT NUMBER: 136:349749  
TITLE: The first iminoamidophosphite ligand: synthesis and complexation with rhodium(I)  
AUTHOR(S): Gavrilov, K. N.; Bondarev, O. G.; Polosukhin, A. I.; Lyubimov, S. E.; Tzarev, V. N.  
CORPORATE SOURCE: Nemesyanov Institute of Organoelement Compounds, Russian Academy of Sciences, Moscow, 117813, Russia  
SOURCE: Russian Journal of Coordination Chemistry (Translation of Koordinatsionnaya Khimiya) (2002), 28(2), 143-145  
CODEN: RJCCEY; ISSN: 1070-3284  
PUBLISHER: MAIK Nauka/Interperiodica Publishing  
DOCUMENT TYPE: Journal  
LANGUAGE: English  
OTHER SOURCE(S): CASREACT 136:349749

AB Optically active amidophosphite with the peripheral imino group (R)-(Et<sub>2</sub>N)2POCH<sub>2</sub>CH(Et)N=CHPh (PN) was synthesized through 1-stage phosphorylation of the corresponding imino alc. Its reaction with [Rh(CO)2Cl]<sub>2</sub> (at P: Rh = 1) yields the mononuclear chelate [Rh(CO)(PN)Cl]. Structures of the compounds are determined by IR, <sup>31</sup>P, and

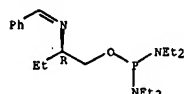
13C NMR spectroscopy, mass spectrometry, and polarimetry.

IT RL: RCT (Reactant); RACT (Reactant or reagent)  
(for preparation of iminoamidophosphite and its rhodium complex)  
RN 685-83-6 CAPLUS  
CN Phosphorodiamidous chloride, tetraethyl-, (6CI, 7CI, 8CI, 9CI) (CA INDEX NAME)



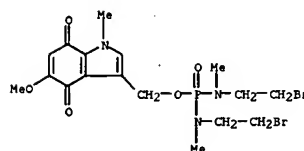
IT 418779-53-0P  
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)  
(preparation and complexation with rhodium)  
RN 418779-53-0 CAPLUS  
CN Phosphorodiamidous acid, tetraethyl-, (2R)-2-[(phenylmethylene)amino]butyl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.  
Double bond geometry unknown.

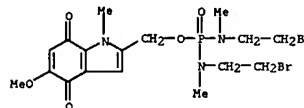


REFERENCE COUNT: 11 THERE ARE 11 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L6 ANSWER 3 OF 40 CAPLUS COPYRIGHT 2007 ACS ON STN (Continued)



IT 318974-72-0P  
RL: BSU (Biological study, unclassified); PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)  
(preparation and evaluation of indolequinone phosphoramidates as prodrug targeted to DT-diaphorase)  
RN 318974-72-0 CAPLUS  
CN Phosphorodiamidic acid, N,N'-bis(2-bromoethyl)-N,N'-dimethyl-, (4,7-dihydro-5-methoxy-1-methyl-4,7-dioxo-1H-indol-2-yl)methyl ester (9CI) (CA INDEX NAME)



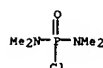
REFERENCE COUNT: 32 THERE ARE 32 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L6 ANSWER 5 OF 40 CAPLUS COPYRIGHT 2007 ACS ON STN

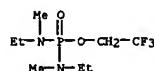
ACCESSION NUMBER: 2000:376020 CAPLUS  
DOCUMENT NUMBER: 133:164102  
TITLE: Fluorinated phosphorus compounds. Part 1. The synthesis and reactions of some fluoroalkyl phosphoryl compounds  
AUTHOR(S): Timperley, C. M.; Bird, M.; Broderick, J. F.; Holden, I. J.; Morton, I. J.; Waters, M. J.  
CORPORATE SOURCE: Chemical and Biological Defence Sector, Defence Evaluation and Research Agency, Salisbury, Wiltshire, SP4 0JQ, UK  
SOURCE: Journal of Fluorine Chemistry (2000), 104(2), 215-223  
CODEN: JFLCAR; ISSN: 0022-1139  
PUBLISHER: Elsevier Science S.A.  
DOCUMENT TYPE: Journal  
LANGUAGE: English  
OTHER SOURCE(S): CASREACT 133:164102

AB Fluoroalkyl phosphorochloridates CF<sub>3</sub>CH<sub>2</sub>OP(O)Cl<sub>2</sub> and (R<sup>f</sup>CH<sub>2</sub>O)P(O)Cl<sub>2</sub> (R<sup>f</sup> = CF<sub>3</sub>, C<sub>2</sub>F<sub>5</sub>) were prepared from phosphorus oxychloride, fluoroalcs. and triethylamine, but selective substitution was difficult. Phosphates (R<sup>f</sup>CH<sub>2</sub>O)P(O)OR (R<sup>f</sup> = CF<sub>3</sub>, C<sub>2</sub>F<sub>5</sub> and R = Me, Et, n-Pr, i-Pr) were isolated in yields of 38-64% from the reactions of the phosphorochloridates with alcs. and triethylamine. Success of the inverse reaction, i.e., ROP(O)Cl<sub>2</sub> and R<sup>f</sup>CH<sub>2</sub>OH, depended on the R group (Me, Et) and the R<sup>f</sup> group (CF<sub>3</sub>, C<sub>2</sub>F<sub>5</sub>). The phosphates did not react with bromotrimethylsilane in chloroform. Addition of amines to CF<sub>3</sub>CH<sub>2</sub>OP(O)Cl<sub>2</sub> or (CF<sub>3</sub>CH<sub>2</sub>O)P(O)Cl<sub>2</sub> gave phosphoramidates (RR'<sup>f</sup>N)P(O)OCH<sub>2</sub>CF<sub>3</sub> or (CF<sub>3</sub>CH<sub>2</sub>O)P(O)NRR'. (R and R' = H, Me, Et) in yields of 58-75%. The inverse reactions of Me<sub>2</sub>NP(O)Cl<sub>2</sub> and (Me<sub>2</sub>N)P(O)Cl<sub>2</sub> with trifluoroethanol were slow, but were catalyzed by 4-dimethylaminopyridine. Anhydrous hydrogen chloride split one of the P-N bonds of (Me<sub>2</sub>N)P(O)OCH<sub>2</sub>CF<sub>3</sub> to give Me<sub>2</sub>NP(O)Cl<sub>2</sub>(OCH<sub>2</sub>CF<sub>3</sub>), but did not react with (CF<sub>3</sub>CH<sub>2</sub>O)P(O)NMe<sub>2</sub>.

IT 1605-65-8  
RL: RCT (Reactant); RACT (Reactant or reagent)  
(nucleophilic substitution reaction with fluoroalkyl alcs.)  
RN 1605-65-8 CAPLUS  
CN Phosphorodiamidic chloride, tetramethyl-, (6CI, 7CI, 8CI, 9CI) (CA INDEX NAME)

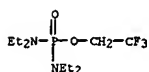


IT 287931-21-9P 287931-22-0P  
RL: SPN (Synthetic preparation); PREP (Preparation)  
(preparation of)  
RN 287931-21-9 CAPLUS  
CN Phosphorodiamidic acid, N,N'-diethyl-N,N'-dimethyl-, 2,2,2-trifluoroethyl ester (9CI) (CA INDEX NAME)



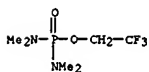
L6 ANSWER 5 OF 40 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

RN 287931-22-0 CAPLUS  
CN Phosphorodiamidic acid, tetraethyl-, 2,2,2-trifluoroethyl ester (9CI) (CA INDEX NAME)



IT 287931-20-8P  
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)  
(scission of one P-N bond by reaction with HCl, to form corresponding monochloride)

RN 287931-20-9 CAPLUS  
CN Phosphorodiamidic acid, tetramethyl-, 2,2,2-trifluoroethyl ester (9CI) (CA INDEX NAME)



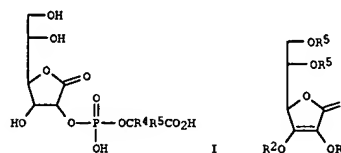
REFERENCE COUNT: 18 THERE ARE 18 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L6 ANSWER 6 OF 40 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 1997:181081 CAPLUS  
DOCUMENT NUMBER: 126:186316  
TITLE: Preparation of L-ascorbic acid 2-phosphate  $\alpha$ -hydroxy acid esters having excellent storage stability  
INVENTOR(S): Morizaki, Kazuo; Sasaki, Masanao; Ozaki, Shoichiro; Watanabe, Yutaka  
PATENT ASSIGNEE(S): Kanto Denka Kogyo Kk, Japan; Ozaki Shoichiro Jpn. Kokai Tokkyo Koho, 11 pp.  
SOURCE: CODEN: JKKXAF  
DOCUMENT TYPE: Patent  
LANGUAGE: Japanese  
FAMILY ACC. NUM. COUNT: 1  
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 09020790	A	19970121	JP 1995-167638	19950703
JP 3619287	B2	20050209	JP 1995-167638	19950703

PRIORITY APPLN. INFO.: MARPAT 126:186316  
OTHER SOURCE(S): GI



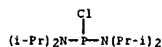
AB The title compds. [I: R<sub>3</sub>, R<sub>4</sub> = H, (CH<sub>2</sub>)<sub>n</sub>Me, [(CH<sub>2</sub>)<sub>q</sub>(CHMe)<sub>r</sub>], CH[(CH<sub>2</sub>)<sub>t</sub>Me]; p, q, r, s, t, u = 0-20] are prepared by condensation of alkoxybis(substituted amino)phosphine of formula (R<sub>1</sub>R<sub>2</sub>)<sub>2</sub>POR<sub>3</sub> (R<sub>1</sub> = sec- or tert-alkyl or R<sub>1</sub>R<sub>2</sub> forms a heterocyclic amino; R<sub>2</sub> = group cleavable upon reduction such as benzyl, methoxybenzyl, nitrobenzyl, or cyanobenzyl) with  $\alpha$ -hydroxy acid of formula HOCH(R<sub>3</sub>R<sub>4</sub>)CO<sub>2</sub>R<sub>5</sub> (R<sub>2</sub>, R<sub>3</sub>, R<sub>4</sub> = same as above) in the presence of a condensing agent, condensation of the resulting R<sub>1</sub>R<sub>2</sub>NP(OR<sub>3</sub>)<sub>2</sub>CO<sub>2</sub>R<sub>5</sub> (R<sub>1</sub> - R<sub>4</sub> = same as above) with an ascorbic acid derivative (II: R = H; R<sub>2</sub> = same as above; R<sub>5</sub> group listed in R<sub>2</sub>) followed by oxidation, and reductive deprotection of the resulting ascorbic acid 2-phosphate derivs. II [R = P(OR<sub>2</sub>)<sub>2</sub>CO<sub>2</sub>R<sub>5</sub>; R<sub>2</sub> - R<sub>5</sub> = same as above]. They are stable vitamin C derivs. with excellent storage stability, have a broad range of physiol. and pharmaceutical activities such as antioxidant activity and melanin-formation inhibitory activity accompanied by reduction of and melanin dyes and dopaquinone, and are useful for cosmetics, drugs, and foods. Thus, PhCH<sub>2</sub>OP[N(CHMe<sub>2</sub>)<sub>2</sub>]<sub>2</sub> (preparation given) was condensed with benzyl glycolate (preparation given) in the presence of 1H-tetrazole in CH<sub>2</sub>Cl<sub>2</sub> at room temperature for 4 h to give 98t PhCH<sub>2</sub>OP[N(CHMe<sub>2</sub>)<sub>2</sub>]<sub>2</sub>OCH<sub>2</sub>CO<sub>2</sub>CH<sub>2</sub>Ph, which was similarly condensed with 3-O-benzyl-5,6-O-benzylidene-L-ascorbic acid at room temperature for 2 h followed by oxidation with m-chloroperbenzoic acid at 0° to room temperature for 1 h to give II [R = P(OCH<sub>2</sub>Ph)<sub>2</sub>OCH<sub>2</sub>CO<sub>2</sub>CH<sub>2</sub>Ph, R<sub>2</sub> = CH<sub>2</sub>Ph, R<sub>5</sub>R<sub>5</sub> = CHPh].

L6 ANSWER 6 OF 40 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

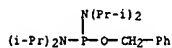
The latter compd. was hydrogenolyzed over 5% Pd-C in MeOH under h atm. at room temp. for 30 h, filtered to remove the catalyst, evapd. in vacuo to remove the solvent, and passed through a column of Diaion SK1B (Na form) (cation exchanger) to give 1.Na (R<sub>4</sub> = R<sub>5</sub> = H). A 1% soln. of the latter compd. in 50% aq. EtOH was tested for stability by heating it at 50° for 14 days or exposing it to sun light for 14 days to show residual ratio of 91.3 or 82.9%, resp., vs. 22.4 or 27.3%, resp. for ascorbic acid. A cosmetic soln. contg. 2.0 wt.% of the latter compd. was applied to 20 female panelists twice a day for 2 mo to show skin whitening effect for 16 panelists.

IT 56183-63-2P, Bis(diisopropylamino)chlorophosphine  
108549-21-9P, Benzylxybis(diisopropylamino)phosphine  
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)  
(preparation of L-ascorbic acid phosphate  $\alpha$ -hydroxy acid esters with excellent storage stability as antioxidants and melanin formation inhibitors)

RN 56183-63-2 CAPLUS  
CN Phosphorodiamidous chloride, tetrakis(1-methylethyl)- (9CI) (CA INDEX NAME)



RN 108549-21-9 CAPLUS  
CN Phosphorodiamidous acid, tetrakis(1-methylethyl)-, phenylmethyl ester (9CI) (CA INDEX NAME)



L6 ANSWER 7 OF 40 CAPLUS COPYRIGHT 2007 ACS on STN

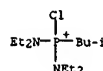
ACCESSION NUMBER: 1995:868733 CAPLUS  
DOCUMENT NUMBER: 124:87148  
TITLE: Reaction of tervalent phosphorus compounds with sterically hindered N-chloroamines  
AUTHOR(S): Kolodiazhyi, Oleg I.; Golovaty, Oleg R.  
CORPORATE SOURCE: Inst. of Bioorganic Chemistry, National Academy of Sciences of Ukraine, Kiev, 253094, Ukraine  
SOURCE: Phosphorus, Sulfur and Silicon and the Related Elements (1995), 102(1-4), 133-41  
CODEN: PSSLEC; ISSN: 1042-6507  
PUBLISHER: Gordon & Breach  
DOCUMENT TYPE: Journal  
LANGUAGE: English  
OTHER SOURCE(S): CASREACT 124:87148

AB Reaction of tervalent P compds., e.g., P(NEt<sub>2</sub>)<sub>3</sub>, with sterically hindered N-haloamines, e.g., (Me<sub>2</sub>CH)NXX (X = Cl, Br) proceeds via the formation of halophosphonium intermediates, i.e., (Et<sub>2</sub>N)3PX+ (Me<sub>2</sub>CH)2N- (1). Intermediates 1 react with alcs., e.g., MeOH, to afford alkoxyphosphonium salts, (Et<sub>2</sub>N)3POMe+ X-; 1 transform into halophosphonium salts (Et<sub>2</sub>N)3PX+ X- or P-haloxydes (Et<sub>2</sub>N)2PCL:CHMe<sub>2</sub> (2). Steric hindrances at the N atom of intermediates (1) favor the formation of P-haloxydes. The P-chloroxyde 2 exists in the chlorotropic equilibrium

with the  $\alpha$ -chloroalkylphosphine, i.e., (Et<sub>2</sub>N)2PCHClCHMe<sub>2</sub>.

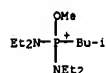
IT 172370-46-6P  
RL: SPN (Synthetic preparation); PREP (Preparation)  
(preparation and reaction with methanol)

RN 172370-46-6 CAPLUS  
CN Phosphorus(1+), bis(N-ethylethanaminato)(2-methylpropyl)-, chloride, (T-4)- (9CI) (CA INDEX NAME)

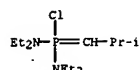


● Cl-

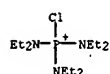
IT 163492-81-7P  
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)  
(preparation and reaction with sodium perchlorate)  
RN 163492-81-7 CAPLUS  
CN Phosphorus(1+), bis(N-ethylethanaminato)methoxy(2-methylpropyl)-, chloride, (T-4)- (9CI) (CA INDEX NAME)

● Cl<sup>-</sup>

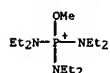
IT 110870-82-1P  
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)  
 (preparation and rearrangement of)  
 RN 110870-82-1 CAPLUS  
 CN Phosphorane, 1-chloro-N,N,N',N'-tetraethyl-1-(2-methylpropylidene)- (9CI) (CA INDEX NAME)



IT 17761-44-3P 73954-63-9P 122600-76-4P  
 148115-72-4P 151984-71-3P 168130-34-5P  
 172490-29-8P  
 RL: SPN (Synthetic preparation); PREP (Preparation)  
 (preparation of)  
 RN 17761-44-3 CAPLUS  
 CN Phosphorus(1+), chlorotris(N-ethylethanaminato)-, chloride, (T-4)- (9CI) (CA INDEX NAME)

● Cl<sup>-</sup>

RN 73954-63-9 CAPLUS  
 CN Phosphorus(1+), bromotris(N-ethylethanaminato)-, bromide, (T-4)- (9CI) (CA INDEX NAME)



CM 2

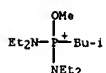
CRN 14797-73-0  
 CHF Cl O4



RN 172490-29-8 CAPLUS  
 CN Phosphorus(1+), bis(N-ethylethanaminato)methoxy(2-methylpropyl)-, (T-4)-, perchlorate (9CI) (CA INDEX NAME)

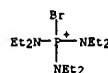
CM 1

CRN 172490-28-7  
 CHF Cl3 H32 N2 O P

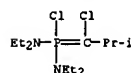


CM 2

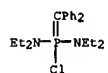
CRN 14797-73-0  
 CHF Cl O4

● Br<sup>-</sup>

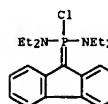
RN 122600-76-4 CAPLUS  
 CN Phosphorane, 1-chloro-1-(1-chloro-2-methylpropylidene)-N,N,N',N'-tetraethyl- (9CI) (CA INDEX NAME)



RN 148115-72-4 CAPLUS  
 CN Phosphorane, 1-chloro-1-(diphenylmethylene)-N,N,N',N'-tetraethyl- (9CI) (CA INDEX NAME)



RN 151984-71-3 CAPLUS  
 CN Phosphorane, 1-chloro-N,N,N',N'-tetraethyl-1-(9H-fluoren-9-ylidene)- (9CI) (CA INDEX NAME)

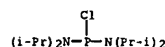


RN 168130-34-5 CAPLUS  
 CN Phosphorus(1+), tris(N-ethylethanaminato)methoxy-, (T-4)-, perchlorate (9CI) (CA INDEX NAME)

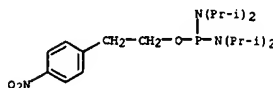
CM 1

CRN 168130-33-4  
 CHF Cl3 H33 N3 O P

ACCESSION NUMBER: 1995:273379 CAPLUS  
 DOCUMENT NUMBER: 123:112591  
 TITLE: Use of Npe-protecting groups for the preparation of oligodeoxyribonucleotides without using nucleophiles during the final deprotection  
 AUTHOR(S): Avino, Anna Maria; Eritja, Ramon  
 CORPORATE SOURCE: CID, CSIC, Barcelona, 08034, Spain  
 SOURCE: Nucleosides & Nucleotides (1994), 13(10), 2059-69  
 CODEN: NUNUD5; ISSN: 0732-8311  
 PUBLISHER: Dekker  
 DOCUMENT TYPE: Journal  
 LANGUAGE: English  
 OTHER SOURCE(S): CASREACT 123:112591  
 AB The preparation of O-(4-nitrophenyl)ethyl phosphoramidites and H-phosphonate derivs. of Npe (nitrophenyl)ethyl protected nucleosides is described together with the use of these products to prepare oligodeoxyribonucleotides without using nucleophiles during the final deprotection.  
 IT 56183-63-2  
 RL: RCT (Reactant); RACT (Reactant or reagent)  
 (Merrifield synthesis of oligodeoxyribonucleotides using nitrophenylethyl protecting groups)  
 RN 56183-63-2 CAPLUS  
 CN Phosphorodiamidous chloride, tetrakis(1-methylethyl)- (9CI) (CA INDEX NAME)



IT 108787-34-4P  
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)  
 (Merrifield synthesis of oligodeoxyribonucleotides using nitrophenylethyl protecting groups)  
 RN 108787-34-4 CAPLUS  
 CN Phosphorodiamidous acid, tetrakis(1-methylethyl)-, 2-(4-nitrophenyl)ethyl ester (9CI) (CA INDEX NAME)



L6 ANSWER 9 OF 40 CAPLUS COPYRIGHT 2007 ACS on STN

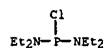
ACCESSION NUMBER: 1994:269228 CAPLUS  
DOCUMENT NUMBER: 120:269228  
TITLE: A convenient method for the transformation of alcohols into alkyl trifluoromethyl sulfides  
AUTHOR(S): Kolomeitsev, A. A.; Chabanenko, K. Yu.; Roeschenthaler, G. V.; Yagupolskii, Yu. L.  
CORPORATE SOURCE: Inst. Org. Chem., Kiev, 253660, Ukraine  
SOURCE: Synthesis (1994), (2), 145-6  
CODEN: SYNTBF; ISSN: 0039-7881

DOCUMENT TYPE: Journal  
LANGUAGE: English  
OTHER SOURCE(S): CASREACT 120:269228

AB Alkyl trifluoromethyl sulfides RSCF<sub>3</sub> (R = PhCH<sub>2</sub>, EtO<sub>2</sub>CCH<sub>2</sub>, EtO<sub>2</sub>CCHMe) are prepared in almost quant. yields by phosphorylation of alcs. or α-hydroxy esters ROH using (Et<sub>2</sub>N)P(O)Cl<sub>2</sub>, followed by reaction with (CF<sub>3</sub>)<sub>2</sub>SO<sub>2</sub> under extremely mild conditions. Ph<sub>2</sub>SO<sub>2</sub> reacts similarly with phosphorylated alc. (Et<sub>2</sub>N)P(O)CH<sub>2</sub>Ph.

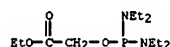
IT 685-83-6, Chlorobis(diethylamino)phosphine  
RL: RCT (Reactant); RACT (Reactant or reagent)  
(esterification of)

RN 685-83-6 CAPLUS  
CN Phosphorodiamidous chloride, tetraethyl- (6CI, 7CI, 8CI, 9CI) (CA INDEX NAME)

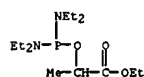


IT 154601-51-1P 154601-52-2P  
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(preparation and reaction of, with bis(trifluoromethyl) disulfide)  
RN 154601-51-1 CAPLUS  
CN Acetic acid, [[bis(diethylamino)phosphino]oxy]-, ethyl ester (9CI) (CA INDEX NAME)



RN 154601-52-2 CAPLUS  
CN Propanoic acid, 2-[[bis(diethylamino)phosphino]oxy]-, ethyl ester (9CI) (CA INDEX NAME)



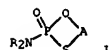
IT 66954-57-2P  
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)  
(preparation and reaction of, with disulfides)

L6 ANSWER 10 OF 40 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 1994:107134 CAPLUS  
DOCUMENT NUMBER: 120:107134  
TITLE: Transformations of thiocyanatealkyl phosphites and amidophosphites  
AUTHOR(S): Nuretdinova, O. N.; Novikova, V. G.; Troitskaja, L. B.  
CORPORATE SOURCE: A. E. Arbuzov Inst. Org. Phys. Chem., Kazan, 420083, Russia  
SOURCE: Izvestiya Akademi Nauk, Seriya Khimicheskaya (1992), (11), 2673-5  
CODEN: IASKEA; ISSN: 1026-3500

DOCUMENT TYPE: Journal  
LANGUAGE: Russian  
OTHER SOURCE(S): CASREACT 120:107134

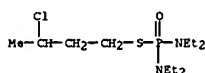
GI



AB Reaction of [Me<sub>2</sub>C(CC13)O]P(O)Cl<sub>2</sub> with MeCH(OH)CH<sub>2</sub>CH<sub>2</sub>SCN from -10 to -15° to 20° afforded [Me<sub>2</sub>C(CC13)O]P(O)CHMeCH<sub>2</sub>CH<sub>2</sub>SCN; heating the latter in boiling PhMe afforded quant. [Me<sub>2</sub>C(CC13)O]P(O)SCH<sub>2</sub>CH<sub>2</sub>CH<sub>2</sub>Me. Reaction of (MeO)P(NR<sub>2</sub>)Cl<sub>2</sub> (R = Me, Et) with HOASCN [A = (CH<sub>2</sub>)<sub>3</sub>, MeCH(CH<sub>2</sub>)<sub>2</sub>, MeCHCH<sub>2</sub>, MeCHMe] afforded oxathiaphospholanes and -phosphorinanes I. Rearrangement reaction of (Me<sub>2</sub>N)P(O)Cl<sub>2</sub> with HOCHMeCHMeSCN afforded (Me<sub>2</sub>N)P(O)SCHMeCHMeCl.

IT 150844-72-7P  
RL: SPN (Synthetic preparation); PREP (Preparation)  
(preparation of)

RN 150844-72-7 CAPLUS  
CN Phosphorodiamidothioic acid, tetraethyl-, S-(3-chlorobutyl) ester (9CI) (CA INDEX NAME)

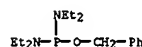


IT 152327-69-0  
RL: RCT (Reactant); RACT (Reactant or reagent)  
(reactions of, with amidochlorophosphites)

RN 152327-69-0 CAPLUS  
CN Phosphorodiamidothioic acid, tetramethyl-, S-(2-chloro-1-methylpropyl) ester (9CI) (CA INDEX NAME)

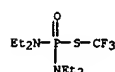
L6 ANSWER 9 OF 40 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

RN 66954-57-2 CAPLUS  
CN Phosphorodiamidous acid, tetraethyl-, phenylmethyl ester (9CI) (CA INDEX NAME)

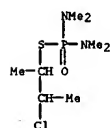


IT 154601-54-4P  
RL: SPN (Synthetic preparation); PREP (Preparation)  
(preparation of)

RN 154601-54-4 CAPLUS  
CN Phosphorodiamidothioic acid, tetraethyl-, S-(trifluoromethyl) ester (9CI) (CA INDEX NAME)

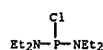


L6 ANSWER 10 OF 40 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

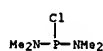


IT 685-83-6 3348-44-5  
RL: RCT (Reactant); RACT (Reactant or reagent)  
(rearrangement reaction, with thiocyanate alcs.)

RN 685-83-6 CAPLUS  
CN Phosphorodiamidous chloride, tetraethyl- (6CI, 7CI, 8CI, 9CI) (CA INDEX NAME)



RN 3348-44-5 CAPLUS  
CN Phosphorodiamidous chloride, tetramethyl- (6CI, 7CI, 8CI, 9CI) (CA INDEX NAME)



=> FIL STNGUIDE  
COST IN U.S. DOLLARS

FULL ESTIMATED COST

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)

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SINCE FILE	TOTAL
ENTRY	SESSION
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FULL ESTIMATED COST

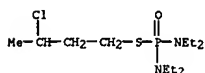
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CA SUBSCRIBER PRICE

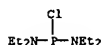
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SINCE FILE	TOTAL
ENTRY	SESSION
0.00	-7.80

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L6 ANSWER 11 OF 40 CAPLUS COPYRIGHT 2007 ACS ON STN  
 ACCESSION NUMBER: 1993:626073 CAPLUS  
 DOCUMENT NUMBER: 119:226073  
 TITLE: Reaction of tetraethylthiochlorophosphite with thiocyanate alcohols  
 AUTHOR(S): Nuretdinova, O. N.; Novikova, V. G.  
 CORPORATE SOURCE: A. E. Arbuzov Inst. Org. Phys. Chem., Kazan, 420083, Russia  
 SOURCE: Izvestiya Akademi Nauk, Seriya Khimicheskaya (1992), (11), 2678-80  
 CODEN: IASKEA; ISSN: 1026-3500  
 DOCUMENT TYPE: Journal  
 LANGUAGE: Russian  
 OTHER SOURCE(S): CASREACT 119:226073  
 AB Reaction of (Et<sub>2</sub>N)P(=O)Cl with MeCH(OH)CH<sub>2</sub>CH<sub>2</sub>SCN in Et<sub>2</sub>O containing Et<sub>3</sub>N at low temperature (-30 to -35°) gave (Et<sub>2</sub>N)P(=O)SCN. Treating the latter with S or Se in PhMe gave (Et<sub>2</sub>N)P(X)CN (X = S, Se), resp.  
 IT 150844-72-7P  
 RL: PREP (Preparation)  
 (formation and phosphorus-31 NMR of)  
 RN 150844-72-7 CAPLUS  
 CN Phosphorodiamidous chloride, tetraethyl-, S-(3-chlorobutyl) ester (9CI) (CA INDEX NAME)



IT 685-83-6  
 RL: RCT (Reactant); RACT (Reactant or reagent)  
 (reaction of, with thiocyanobutanol)  
 RN 685-83-6 CAPLUS  
 CN Phosphorodiamidous chloride, tetraethyl-, (6CI, 7CI, 8CI, 9CI) (CA INDEX NAME)



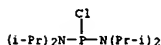
L6 ANSWER 13 OF 40 CAPLUS COPYRIGHT 2007 ACS ON STN  
 ACCESSION NUMBER: 1993:22543 CAPLUS  
 DOCUMENT NUMBER: 118:22543  
 TITLE: Preparation of intermediates for glycosylphosphatidylinositol anchors  
 INVENTOR(S): Ogawa, Tomoyasu; Muragata, Tautomu; Saito, Hiromitsu  
 PATENT ASSIGNEE(S): Institute of Physical and Chemical Research, Japan  
 Kyowa Hakko Kogyo Co., Ltd.  
 SOURCE: Jpn. Kokai Tokkyo Koho, 21 pp.  
 CODEN: JKOXAF  
 DOCUMENT TYPE: Patent  
 LANGUAGE: Japanese  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:  

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 04120089	A	19920421	JP 1990-240960	19900911

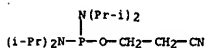
 PRIORITY APPLN. INFO.: JP 1990-240960 19900911  
 GI

\* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT \*

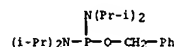
AB The title intermediates, e.g. I and II, are prepared E.g., I was prepared in 4 steps from the protected hexopyranose diacetate III via reaction with p-MeOC<sub>6</sub>H<sub>4</sub>OH in methylene chloride containing CF<sub>3</sub>SO<sub>3</sub>SiMe<sub>3</sub>, hydrolysis, reaction with benzyl alc., CIP[N(CHMe<sub>2</sub>)<sub>2</sub>]<sub>2</sub>, and HOCH<sub>2</sub>CH<sub>2</sub>NHCO<sub>2</sub>CH<sub>2</sub>Ph, and debenzilation.  
 IT 56183-63-2 102691-36-1  
 RL: RCT (Reactant); RACT (Reactant or reagent)  
 (reaction of, in preparation of intermediates for glycosylphosphatidylinositol anchors)  
 RN 56183-63-2 CAPLUS  
 CN Phosphorodiamidous chloride, tetrakis(1-methylethyl)- (9CI) (CA INDEX NAME)



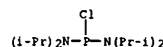
RN 102691-36-1 CAPLUS  
 CN Phosphorodiamidous acid, tetrakis(1-methylethyl)-, 2-cyanoethyl ester (9CI) (CA INDEX NAME)



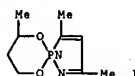
L6 ANSWER 12 OF 40 CAPLUS COPYRIGHT 2007 ACS ON STN  
 ACCESSION NUMBER: 1993:192248 CAPLUS  
 DOCUMENT NUMBER: 118:192248  
 TITLE: Synthesis and phosphorylating properties of hydroxyamino acid phosphoramidites  
 AUTHOR(S): Dreef-Tromp, C. M.; Lefeber, A. W. M.; Van der Marel, G. A.; Van Boom, J. H.  
 CORPORATE SOURCE: Gorlaeus Lab., Leiden, 2300 RA, Neth.  
 SOURCE: Synthesis (1992), (12), 1269-72  
 CODEN: SYNTBF; ISSN: 0039-7881  
 DOCUMENT TYPE: Journal  
 LANGUAGE: English  
 OTHER SOURCE(S): CASREACT 118:192248  
 AB The preparation of protected amino ester phosphoramidites PhCH<sub>2</sub>O<sub>2</sub>C-X[P(OCH<sub>2</sub>Ph)N(CHMe<sub>2</sub>)<sub>2</sub>]-OCH<sub>2</sub>Ph (I; X = Ser, Thr, Tyr, hydroxyproline) using the versatile phosphitylating reagent PhCH<sub>2</sub>O[P(N(CHMe<sub>2</sub>)<sub>2</sub>)<sub>2</sub>] is described. The application of phosphoramidites I is illustrated in the synthesis of several phosphate diesters.  
 IT 108549-21-9P, Benzylxybis(diisopropylamino)phosphine  
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)  
 (preparation and phosphitylation by, of protected hydroxy amino acid side chains)  
 RN 108549-21-9 CAPLUS  
 CN Phosphorodiamidous acid, tetrakis(1-methylethyl)-, phenylmethyl ester (9CI) (CA INDEX NAME)



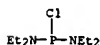
IT 56183-63-2, Chlorobis(N,N-diisopropyl)phosphoramidite  
 RL: PROC (Process)  
 (substitution of, with benzyl alc.)  
 RN 56183-63-2 CAPLUS  
 CN Phosphorodiamidous chloride, tetrakis(1-methylethyl)- (9CI) (CA INDEX NAME)



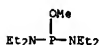
L6 ANSWER 14 OF 40 CAPLUS COPYRIGHT 2007 ACS ON STN  
 ACCESSION NUMBER: 1991:492391 CAPLUS  
 DOCUMENT NUMBER: 115:92391  
 TITLE: Trivalent phosphorus acid pyrazolides  
 AUTHOR(S): Iorish, V. Yu.; Grachev, M. X.; Bekker, A. R.; Nifant'ev, E. A.  
 CORPORATE SOURCE: Mosk. Gos. Pedagog. Inst., Moscow, USSR  
 SOURCE: Zhurnal Obshchei Khimii (1991), 61(1), 106-14  
 CODEN: ZOKH44; ISSN: 0044-460X  
 DOCUMENT TYPE: Journal  
 LANGUAGE: Russian  
 OTHER SOURCE(S): CASREACT 115:92391  
 GI



AB Phosphorylation of pyrazoles was accomplished by several methods, e.g., by reaction with 2-chloro-1,3,2-dioxaphosphorinanes. The phosphorylating ability of the phosphorylated pyrazoles could be enhanced by amine hydrochloride or HBF<sub>4</sub>. In pyrazolide I, the pyrazole ring preferred the axial orientation.  
 IT 685-83-6  
 RL: RCT (Reactant); RACT (Reactant or reagent)  
 (phosphorylation by, of pyrazoles)  
 RN 685-83-6 CAPLUS  
 CN Phosphorodiamidous chloride, tetraethyl-, (6CI, 7CI, 8CI, 9CI) (CA INDEX NAME)

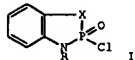


IT 30463-72-0P  
 RL: SPN (Synthetic preparation); PREP (Preparation)  
 (preparation of)  
 RN 30463-72-0 CAPLUS  
 CN Phosphorodiamidous acid, tetraethyl-, methyl ester (8CI, 9CI) (CA INDEX NAME)

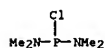




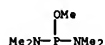
L6 ANSWER 15 OF 40 CAPLUS COPYRIGHT 2007 ACS on STN  
 ACCESSION NUMBER: 1991:429465 CAPLUS  
 DOCUMENT NUMBER: 115:29465  
 TITLE: 1,3,2A5-Benzothiazaphosphole 2-oxide and  
 new and versatile phosphorylating reagents  
 AUTHOR(S): Jacob, Peter; Richter, Wolfgang; Ugi, Ivar  
 CORPORATE SOURCE: Org. Chem. Inst., Tech. Univ. Muenchen, Garching,  
 D-8046, Germany  
 SOURCE: Liebigs Annalen der Chemie (1991), (6), 519-22  
 CODEN: LACHDL; ISSN: 0170-2041  
 DOCUMENT TYPE: Journal  
 LANGUAGE: English  
 OTHER SOURCE(S): CASREACT 115:29465  
 GI



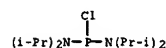
AB The synthesis of the highly reactive five-membered cyclic phosphorylating reagents 1 (R = Me, X = S; R = SO<sub>2</sub>Me, X = O) is described. The former monophosphorylates alcs. without ring opening, whereas the latter diphosphorylates with ring opening yielding phosphate triesters.  
 IT 3348-44-5 17166-16-4  
 RL: RCT (Reactant); RACT (Reactant or reagent)  
 (cyclocondensation reaction of, with aminothiophenol)  
 RN 3348-44-5 CAPLUS  
 CN Phosphorodiamidous chloride, tetramethyl- (6CI, 7CI, 8CI, 9CI) (CA INDEX NAME)



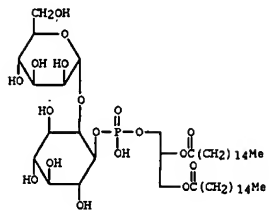
RN 17166-16-4 CAPLUS  
 CN Phosphorodiamidous acid, tetramethyl-, methyl ester (8CI, 9CI) (CA INDEX NAME)



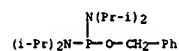
L6 ANSWER 16 OF 40 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)  
 NAME)



L6 ANSWER 16 OF 40 CAPLUS COPYRIGHT 2007 ACS on STN  
 ACCESSION NUMBER: 1990:56485 CAPLUS  
 DOCUMENT NUMBER: 112:56485  
 TITLE: Synthesis of 1-O-(1,2-di-O-palmitoyl-sn-glycero-3-phosphoryl)-2-O-α-D-mannopyranosyl-D-myo-inositol: a fragment of mycobacterial phospholipids  
 AUTHOR(S): Elie, C. J. J.; Dreef, C. E.; Verduyn, R.; Van der Marel, G. A.; Van Boom, J. H.  
 CORPORATE SOURCE: Gorlaeus Lab., Leiden, 2300 RA, Neth.  
 SOURCE: Tetrahedron (1989), 45(11), 3477-86  
 CODEN: TETRAH; ISSN: 0040-4020  
 DOCUMENT TYPE: Journal  
 LANGUAGE: English  
 OTHER SOURCE(S): CASREACT 112:56485  
 GI



AB Optically active and partially benzylated 2-O-(α-D-mannopyranosyl)-D-myo-inositol was coupled, via a trivalent phosphorus method, with 1,2-di-O-palmitoyl-sn-glycerol. Oxidation of the intermediate phosphite-triester, and subsequent removal of the P(V)- and O-benzyl protecting groups, afforded the chiral title compound 1.  
 IT 108549-21-9P  
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)  
 (preparation and reaction of, with di-O-palmitoylglycerol)  
 RN 108549-21-9 CAPLUS  
 CN Phosphorodiamidous acid, tetrakis(1-methylethyl)-, phenylmethyl ester (9CI) (CA INDEX NAME)

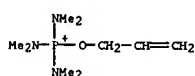


IT 56183-63-2  
 RL: RCT (Reactant); RACT (Reactant or reagent)  
 (reaction of, with benzyl alc.)  
 RN 56183-63-2 CAPLUS  
 CN Phosphorodiamidous chloride, tetrakis(1-methylethyl)- (9CI) (CA INDEX NAME)

L6 ANSWER 17 OF 40 CAPLUS COPYRIGHT 2007 ACS on STN  
 ACCESSION NUMBER: 1989:57225 CAPLUS  
 DOCUMENT NUMBER: 110:57225  
 TITLE: Preparation of alkyl aryl ethers and thio ethers  
 AUTHOR(S): Downie, Ian M.; Heaney, Harry; Kemp, Graham  
 CORPORATE SOURCE: Dep. Chem., Univ. Technol., Leicestershire, LE11 3TU, UK  
 SOURCE: Tetrahedron (1988), 44(9), 2619-24  
 CODEN: TETRAH; ISSN: 0040-4020  
 DOCUMENT TYPE: Journal  
 LANGUAGE: English  
 OTHER SOURCE(S): CASREACT 110:57225  
 AB Stable alkoxyphosphonium salts, ROP<sup>+</sup>(NMe<sub>2</sub>)<sub>3</sub> PF<sub>6</sub><sup>-</sup> [1; R = Me<sub>3</sub>CCCH<sub>2</sub>, Pr, allyl, PhCH<sub>2</sub>, H(CH<sub>2</sub>)<sub>6</sub>CHMe], were prepared and treated with phenols and thiophenols under basic conditions, to yield the corresponding alkyl aryl ethers and sulfides, resp. E.g., 1 [R = H(CH<sub>2</sub>)<sub>6</sub>CHMe] reacted with PhOH and PhSH in Me<sub>2</sub>NCHO containing KOH to give 90% ROPH and 61% RSPH, resp.  
 IT 54739-05-8P  
 RL: SPN (Synthetic preparation); PREP (Preparation)  
 (preparation and etherification and sulfonylation of, with phenol and thiophenols)  
 RN 54739-05-8 CAPLUS  
 CN Phosphorus(1+), tris(N-methylmethanaminato)(2-propen-1-olato)-, (T-4)-, hexafluorophosphate(1-) (9CI) (CA INDEX NAME)

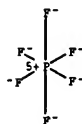
CH 1

CRN 54739-04-7  
 CHF C9 H23 N3 O P



CH 2

CRN 16919-18-9  
 CHF F6 P  
 CCI CCS

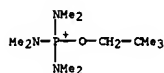


IT 54739-01-4P 54739-03-6P  
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent).  
 (preparation and etherification of, with aromatic alcs.)

L6 ANSWER 17 OF 40 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)  
 RN 54739-01-4 CAPLUS  
 CN Phosphorus(1+), (2,2-dimethyl-1-propanolato)tris(N-methylmethanaminato)-, (T-4)-, hexafluorophosphate(1-) (9CI) (CA INDEX NAME)

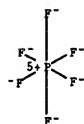
CH 1

CRN 54739-00-3  
 CHF C11 H29 N3 O P



CH 2

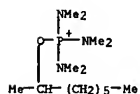
CRN 16919-18-9  
 CHF F6 P  
 CCI CCS



RN 54739-03-6 CAPLUS  
 CN Phosphorus(1+), tris(N-methylmethanaminato)(2-octanolato)-, (T-4)-, hexafluorophosphate(1-) (9CI) (CA INDEX NAME)

CH 1

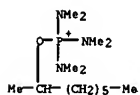
CRN 54739-02-5  
 CHF C14 H35 N3 O P



CH 2

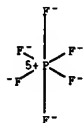
CRN 16919-18-9  
 CHF F6 P

L6 ANSWER 17 OF 40 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)  
 RN 63640-67-5  
 CHF C14 H35 N3 O P



CH 2

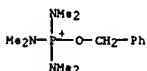
CRN 16919-18-9  
 CHF F6 P  
 CCI CCS



IT 54774-06-0P  
 RL: SPN (Synthetic preparation); PREP (Preparation)  
 (preparation and sulfonylation of, with thiophenols)  
 RN 54774-06-0 CAPLUS  
 CN Phosphorus(1+), (benzenemethanolato)tris(N-methylmethanaminato)-, (T-4)-, hexafluorophosphate(1-) (9CI) (CA INDEX NAME)

CH 1

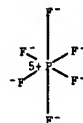
CRN 46852-57-7  
 CHF C13 H25 N3 O P



CH 2

CRN 16919-18-9  
 CHF F6 P  
 CCI CCS

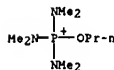
L6 ANSWER 17 OF 40 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)  
 CCI CCS



IT 118527-13-2P 118527-15-4P  
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT  
 (Reactant or reagent)  
 (preparation and etherification of, with phenol)  
 RN 118527-13-2 CAPLUS  
 CN Phosphorus(1+), tris(N-methylmethanaminato)propoxy-, (T-4)-, hexafluorophosphate(1-) (9CI) (CA INDEX NAME)

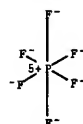
CH 1

CRN 118527-12-1  
 CHF C9 H25 N3 O P



CH 2

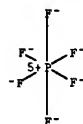
CRN 16919-18-9  
 CHF F6 P  
 CCI CCS



RN 118527-15-4 CAPLUS  
 CN Phosphorus(1+), tris(N-methylmethanaminato)(2-octanolato)-, [T-4-(R)]-, hexafluorophosphate(1-) (9CI) (CA INDEX NAME)

CH 1

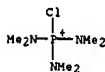
L6 ANSWER 17 OF 40 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)



IT 73421-39-3P 118527-19-8P  
 RL: SPN (Synthetic preparation); PREP (Preparation)  
 (preparation of)  
 RN 73421-39-3 CAPLUS  
 CN Phosphorus(1+), chlorotris(N-methylmethanaminato)-, (T-4)-, hexafluorophosphate(1-) (9CI) (CA INDEX NAME)

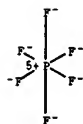
CH 1

CRN 32803-80-8  
 CHF C6 H18 Cl N3 P

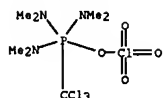


CH 2

CRN 16919-18-9  
 CHF F6 P  
 CCI CCS



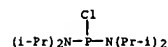
RN 118527-19-8 CAPLUS  
 CN Phosphorotriamine, N,N,N',N'',N''',N'''-hexamethyl-1-(perchloroxy)-1-(trichloromethyl)- (9CI) (CA INDEX NAME)



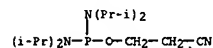
ACCESSION NUMBER: 1988:549797 CAPLUS  
 DOCUMENT NUMBER: 105:149797  
 TITLE: Phosphorodiamidous acid ester derivatives  
 INVENTOR(S): Tawara, Shinichiro; Goto, Kuniaki; Hayakawa, Yoshihiro  
 PATENT ASSIGNEE(S): Nippon Zeon Co., Ltd., Japan  
 SOURCE: Jpn. Kokai Tokkyo Koho, 4 pp.  
 CODEN: JKOXAF  
 DOCUMENT TYPE: Patent  
 LANGUAGE: Japanese  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 62212395	A	19870918	JP 1986-53305	19860311

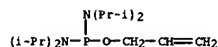
PRIORITY APPLN. INFO.:  
 AB R3OP(NR1R2)2 (1; R1, R2 = secondary or tertiary alkyl; NR1R2 may be a ring; R3O = OH-derived protective group), useful in polynucleotide synthesis, are prepared by amination of PX3 (X = halo) and treating the resultant XP(NR1R2)2 with R3OH. Thus, stirring 28.6 mmol PCl3 with 114.4 mmol diisopropylamine in Et2O at room temperature for 20 h gave 70% [(Me2CH)2N]2PCl, 20 mmol of which was stirred with 20 mmol Et3N and 20 mmol allyl alc. in Et2O at room temperature for 15 h to give 47% I (R1 = R2 = Me2CH, R3 = allyl).  
 IT 56183-63-2P  
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent).  
 (preparation and reaction of, with allyl alc. or cyanoethanol)  
 RN 56183-63-2 CAPLUS  
 CN Phosphorodiamidous chloride, tetrakis(1-methylethyl)- (9CI) (CA INDEX NAME)



IT 102691-36-1P 108554-72-9P, Allyloxybis(N,N-diisopropylamino)phosphine  
 RL: SPN (Synthetic preparation); PREP (Preparation)  
 (preparation of, as synthetic reagent for polynucleotide synthesis)  
 RN 102691-36-1 CAPLUS  
 CN Phosphorodiamidous acid, tetrakis(1-methylethyl)-, 2-cyanoethyl ester (9CI) (CA INDEX NAME)

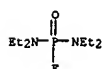


RN 108554-72-9 CAPLUS  
 CN Phosphorodiamidous acid, tetrakis(1-methylethyl)-, 2-propenyl ester (9CI) (CA INDEX NAME)

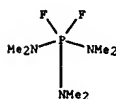


ACCESSION NUMBER: 1986:591237 CAPLUS  
 DOCUMENT NUMBER: 105:191237  
 TITLE: Reaction of the two-component systems P(OR)3-x(NR2)x (x = 0-3)/CCl4 and P4/CCl4 with HF-donors  
 AUTHOR(S): Riesel, L.; Kant, M.  
 CORPORATE SOURCE: Sek. Chem., Humboldt-Univ., Berlin, DDR-1040, Ger. Dem. Rep.  
 SOURCE: Zeitschrift fuer Anorganische und Allgemeine Chemie (1985), 531, 73-81  
 CODEN: ZAACAB; ISSN: 0044-2313  
 DOCUMENT TYPE: Journal  
 LANGUAGE: German  
 AB The combination of organoammonium fluorides and CCl4 is a good agent for oxidative fluorination of trivalent phosphorus compds. Oxidation products [(RO)PF5]- and (RO)2P(O)F are obtained from P(OR)3; (Et2N)2P(O)F and (Et2N)2(EtO)PF2 are obtained from P(OEt)(NEt2)2, and (Et2N)3PF2 and [(Et2N)3PF]+ are obtained from P(NEt2)3. In the system R2NH/CCl4/Et3N-nHF, P4 is oxidized forming [HFP5]-, R2NH-PF5 and (R2N)2P(O)F. In the case of simultaneous addition of alcs., [(RO)PF5]-, (RO)3PO and (R2N)2P(O)F are formed. The reactions are controlled by the nucleophilicity, the concentration of fluoride, the acidity of the system, and the temperature

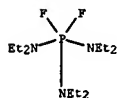
IT 562-17-4P 7549-83-9P 32318-29-9P  
 81193-87-5P 104475-64-1P 104494-43-1P  
 RL: SPN (Synthetic preparation); PREP (Preparation)  
 (preparation of)  
 RN 562-17-4 CAPLUS  
 CN Phosphorodiamidic fluoride, tetraethyl- (6CI, 7CI, 8CI, 9CI) (CA INDEX NAME)



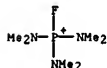
RN 7549-83-9 CAPLUS  
 CN Phosphorotriamine, 1,1-difluoro-N,N,N',N',N'',N'''-hexamethyl- (9CI) (CA INDEX NAME)



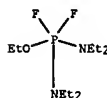
RN 32318-29-9 CAPLUS  
 CN Phosphorotriamine, N,N,N',N',N'',N'''-hexamethyl-1,1-difluoro-, (TB-5-11)- (9CI) (CA INDEX NAME)



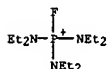
RN 81193-87-5 CAPLUS  
CN Phosphorus(1+), fluorotris(N-methylmethanaminato)-, (T-4)- (9CI) (CA INDEX NAME)



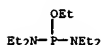
RN 104475-64-1 CAPLUS  
CN Phosphoranediamine, 1-ethoxy-N,N,N',N'-tetraethyl-1,1-difluoro- (9CI) (CA INDEX NAME)



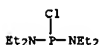
RN 104494-43-1 CAPLUS  
CN Phosphorus(1+), tris(N-ethylethanaminato)fluoro-, (T-4)- (9CI) (CA INDEX NAME)



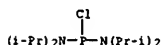
IT 2632-88-4  
RL: RCT (Reactant); RACT (Reactant or reagent)  
(reaction of, with hydrogen fluoride generators)  
RN 2632-88-4 CAPLUS  
CN Phosphorodiamidous acid, tetraethyl-, ethyl ester (7CI, 8CI, 9CI) (CA INDEX NAME)



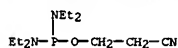
L6 ANSWER 20 OF 40 CAPLUS COPYRIGHT 2007 ACS on STN  
ACCESSION NUMBER: 1986:497579 CAPLUS  
DOCUMENT NUMBER: 105:97579  
TITLE: Thermal instability of some alkyl phosphorodiamidites  
AUTHOR(S): Nielsen, John; Marugg, John E.; Van Boom, Jacques H.;  
Honnens, Jeanne; Taagaard, Michael; Dahl, Otto  
CORPORATE SOURCE: Dep. Gen. Org. Chem., Univ. Copenhagen, Copenhagen,  
DK-2100, Den.  
SOURCE: Journal of Chemical Research, Synopses (1986), (1),  
26-7  
CODEN: JRPSCD; ISSN: 0308-2342  
DOCUMENT TYPE: Journal  
LANGUAGE: English  
OTHER SOURCE(S): CASREACT 105:97579  
AB The phosphorodiamidites ROP(NR')<sub>2</sub> (R = (CH<sub>2</sub>)<sub>2</sub>CN, R' = Et (I), CHMe<sub>2</sub>; R = CHMeCH<sub>2</sub>CN, R' = Et; R = CHMeCH<sub>2</sub>CN, R' = Et, CHMe<sub>2</sub>; R = (CH<sub>2</sub>)<sub>2</sub>SO<sub>2</sub>Me, R' = Et (II), CHMe<sub>2</sub> (III)), promising reagents for the in situ preparation of deoxyribonucleoside phosphoramidates, were prepared in 45-approx.100% yield either by condensation of Et<sub>2</sub>NSiMe<sub>3</sub> with alkyl phosphorodichloridites or of (R'N)<sub>2</sub>PCl with ROH. Except for I-III, the phosphorodiamidites were thermally stable. I-III decomposed at, or below, room temperature and gave R<sub>2</sub>(CH<sub>2</sub>)<sub>2</sub>P(O)(N(Et)<sub>2</sub>)<sub>2</sub> (R<sub>2</sub> = CN, SO<sub>2</sub>Me) in 65 and 96% yield, resp; the mechanism involves an initiation step to form R<sub>2</sub>CH:CH<sub>2</sub> (IV) and HP(O)(N(Et)<sub>2</sub>)<sub>2</sub> followed by a rearrangement cycle in which IV acts as a catalyst. Alkyl phosphorodiamidites with alkoxy groups capable of β-elimination are inherently thermally unstable but their propensity to rearrange to alkylphosphonic diamides is inhibited by bulky substituents.  
IT 685-83-6 56183-63-2  
RL: RCT (Reactant); RACT (Reactant or reagent)  
(condensation reactions of, with alcs.)  
RN 685-83-6 CAPLUS  
CN Phosphorodiamidous chloride, tetraethyl- (6CI, 7CI, 8CI, 9CI) (CA INDEX NAME)



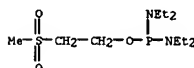
RN 56183-63-2 CAPLUS  
CN Phosphorodiamidous chloride, tetrakis(1-methylethyl)- (9CI) (CA INDEX NAME)



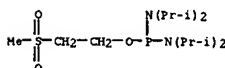
IT 103930-67-2P 103930-71-8P  
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)  
(preparation and rearrangement of, mechanism of)  
RN 103930-67-2 CAPLUS  
CN Phosphorodiamidous acid, tetraethyl-, 2-cyanoethyl ester (9CI) (CA INDEX NAME)



RN 103930-71-8 CAPLUS  
CN Phosphorodiamidous acid, tetraethyl-, 2-(methylsulfonyl)ethyl ester (9CI) (CA INDEX NAME)

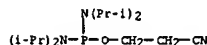


IT 103930-72-9P  
RL: PRP (Properties); SPN (Synthetic preparation); PREP (Preparation)  
(preparation and stability of)  
RN 103930-72-9 CAPLUS  
CN Phosphorodiamidous acid, tetrakis(1-methylethyl)-, 2-(methylsulfonyl)ethyl ester (9CI) (CA INDEX NAME)

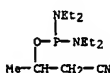


IT 102691-36-1P 103930-68-3P 103930-69-4P  
103930-70-7P  
RL: SPN (Synthetic preparation); PREP (Preparation)  
(preparation of)

RN 102691-36-1 CAPLUS  
CN Phosphorodiamidous acid, tetrakis(1-methylethyl)-, 2-cyanoethyl ester (9CI) (CA INDEX NAME)

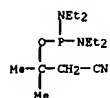


RN 103930-68-3 CAPLUS  
CN Phosphorodiamidous acid, tetraethyl-, 2-cyano-1-methylethyl ester (9CI) (CA INDEX NAME)

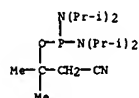


RN 103930-69-4 CAPLUS  
CN Phosphorodiamidous acid, tetraethyl-, 2-cyano-1,1-dimethylethyl ester

L6 ANSWER 20 OF 40 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)  
(9CI) (CA INDEX NAME)



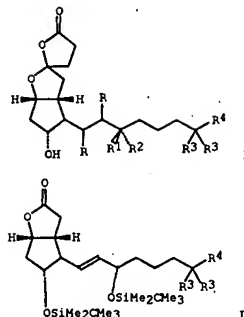
RN 103930-70-7 CAPLUS  
CN Phosphorodiamidous acid, tetrakis(1-methylethyl)-, 2-cyano-1,1-dimethylethyl ester (9CI) (CA INDEX NAME)



L6 ANSWER 21 OF 40 CAPLUS COPYRIGHT 2007 ACS on STN  
ACCESSION NUMBER: 1982:438705 CAPLUS

DOCUMENT NUMBER: 97:38705

TITLE: The synthesis of 2,3-dinorprostacyclin metabolites: a new approach to spiroactone hemiacetals  
AUTHOR(S): Bundy, G. L.; Lin, C. H.; Sih, J. C.  
CORPORATE SOURCE: Exp. Chem. Res., Upjohn Co., Kalamazoo, MI, 49001, USA  
SOURCE: Tetrahedron (1981), 37(25), 4419-29  
CODEN: TETRA8; ISSN: 0040-4020  
DOCUMENT TYPE: Journal  
LANGUAGE: English  
GI



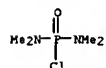
AB The major human urinary metabolites of prostacyclin and 6-oxo-PGF1a were prepared by a direct route involving C3 homologation of bicyclic lactone intermediates and spontaneous spiroactonization of the products. The fact that these 2,3-dinor-6-oxo metabolites exist almost exclusively as spiroactone hemiacetals at pH < 5 may explain the reported difficulties in derivatizing samples of biol. origin. The metabolites I (R2 = bond, R1 = H, R2 = OH; R1R2 = O; R = H, R1R2 = O; R3 = H, R4 = Me; R3 = D, R4 = CHD2) were prepared from bicyclic lactones II (same R3, R4) by treatment with (Me2N)2P(O)CH(O-)CH2CH2-2Li+ at -25° followed by mild acidification and desilylation and, if necessary, oxidation I (R = R3 = H, R1R2 = O, R4 = CO2H) was prepared similarly.

IT 1605-65-8  
RL: RCT (Reactant); RACT (Reactant or reagent)  
(condensation reaction of, with allyl alc.)

RN 1605-65-8 CAPLUS

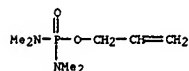
CN Phosphorodiamidic chloride, tetramethyl-, (6CI, 7CI, 8CI, 9CI) (CA INDEX NAME)

L6 ANSWER 21 OF 40 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)



IT 50775-60-5P  
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)  
(preparation and deprotonation of)

RN 50775-60-5 CAPLUS  
CN Phosphorodiamidic acid, tetramethyl-, 2-propenyl ester (9CI) (CA INDEX NAME)

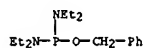


=> d 16 22-32 ibib abs hitstr

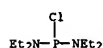
L6 ANSWER 22 OF 40 CAPLUS COPYRIGHT 2007 ACS on STN  
 ACCESSION NUMBER: 1982:122835 CAPLUS  
 DOCUMENT NUMBER: 96:122835  
 TITLE: Migratory capability of the substituent X in the  
 R2(XO)P(N-P(O)R2) system  
 AUTHOR(S): Zaslavskaya, N. N.; Gilyarov, V. A.  
 CORPORATE SOURCE: Inst. Elementorg. Soedin., Moscow, USSR  
 SOURCE: Khim. Primen. Fosfororg. Soedin., Tr. Yubileinoi  
 Konf., 6th (1981), Meeting Date 1977, 274-81.  
 Editor(s): Kirsanov, A. V. Izd. Naukova Dumka: Kiev,  
 USSR.

DOCUMENT TYPE: CODEN: 47ETAA  
 LANGUAGE: Russian  
 CONFERENCE: General Review

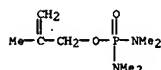
AB A review, with 11 refs., including the preparation of  
 (MeO)2P(O)N:P(OEt)2(OSiMe3), (CH2)CHCH2O) (EtO)2P:NP(O) (OEt)2,  
 Et2(PhCH2O)P:NP(O) (NET2)2 and (Et2N)2POCH2Ph.  
 IT 66954-57-2P  
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT  
 (Reactant or reagent)  
 RN (preparation and reaction of, with di-Et azidophosphate)  
 66954-57-2 CAPLUS  
 CN Phosphorodiamidic acid, tetraethyl-, phenylmethyl ester (9CI) (CA INDEX  
 NAME)



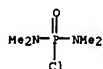
IT 685-83-6  
 RL: RCT (Reactant); RACT (Reactant or reagent)  
 (reaction of, with benzyl alc.)  
 RN 685-83-6 CAPLUS  
 CN Phosphorodiamidic chloride, tetraethyl-, phenylmethyl ester (9CI) (CA INDEX  
 NAME)



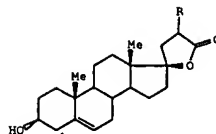
L6 ANSWER 23 OF 40 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)



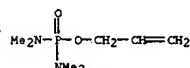
IT 1605-65-8  
 RL: RCT (Reactant); RACT (Reactant or reagent)  
 (reaction of, with allyl alc. and with methylallyl alc.)  
 RN 1605-65-8 CAPLUS  
 CN Phosphorodiamidic chloride, tetramethyl-, (6CI, 7CI, 8CI, 9CI) (CA INDEX  
 NAME)



L6 ANSWER 23 OF 40 CAPLUS COPYRIGHT 2007 ACS on STN  
 ACCESSION NUMBER: 1980:568476 CAPLUS  
 DOCUMENT NUMBER: 93:168476  
 TITLE: Lactonization at the 17β-position of steroids  
 AUTHOR(S): Sturtz, Georges; Yaouanc, Jean Jacques; Krausz,  
 Francois; Labeeuw, Bernard  
 CORPORATE SOURCE: Lab. Chim. Hetero Org., Fac. Sci. Tech., Brest,  
 F-29283, Fr.  
 SOURCE: Synthesis (1980), (4), 289-91  
 CODEN: SYNTHF; ISSN: 0039-7881  
 DOCUMENT TYPE: Journal  
 LANGUAGE: English  
 OTHER SOURCE(S): CASREACT 93:168476  
 GI

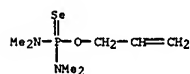


AB Andrenolactone (I; R = H) and its methyl homolog (II; R = Me) were prepared  
 by reaction of the O-tetrahydropyranyl derivative of 3β-hydroxy-17-  
 oxoandrost-5-ene with (Me2N)2P(O)CH(O-):CRCH2-2Li+ (II). Best results  
 were obtained when the reaction was carried out in the presence of agents  
 which solvate the Li cation such as Me2NCH2CH2NMe2, 1,4-  
 diazabicyclo[2.2.2]octane, or a suitable crown ether. II were prepared by  
 treatment of (Me2N)2P(O)CH2CR:CH2 with 2 equiv BuLi.  
 IT 50775-60-5P 58998-14-4P  
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT  
 (Reactant or reagent)  
 RN (preparation and reaction of, with butyllithium and androstenone)  
 50775-60-5 CAPLUS  
 CN Phosphorodiamidic acid, tetramethyl-, 2-propenyl ester (9CI) (CA INDEX  
 NAME)

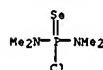


RN 58998-14-4 CAPLUS  
 CN Phosphorodiamidic acid, tetramethyl-, 2-methyl-2-propenyl ester (9CI) (CA  
 INDEX NAME)

L6 ANSWER 24 OF 40 CAPLUS COPYRIGHT 2007 ACS on STN  
 ACCESSION NUMBER: 1978:442308 CAPLUS  
 DOCUMENT NUMBER: 89:42308  
 TITLE: Synthesis and isomerization of allyl esters of  
 selenonic acids of phosphorus  
 AUTHOR(S): Nuretdinov, I. A.; Buina, N. A.; Bayandina, E. V.;  
 Loginova, E. I.; Gainullina, R. G.  
 CORPORATE SOURCE: Inst. Org. Fiz. Khim. im. Arbuzova, Kazan, USSR  
 SOURCE: Zhurnal Obshchei Khimii (1978), 48(3), 547-51  
 CODEN: ZOKH44; ISSN: 0044-460X  
 DOCUMENT TYPE: Journal  
 LANGUAGE: Russian  
 AB RR1P(Se)Cl (R = R1 = PhO, Me2N; R = PhO, R1 = Et2N) reacted with allyl  
 alc. in C6H6 containing Et3N at 10-12° to give  
 RR1P(Se)OCH2CH:CH2 (I), which isomerized to RR1P(O)SeCH2CH:CH2 on  
 distillation  
 in vacuo. Cl2POCH2CH:CH2 reacted with R2OH (R2 = Me, Et) and Se in  
 petroleum ether containing Et3N at -5° to give 68.0-9.6%  
 (R2O)2P(Se)OCH2CH:CH2, which isomerized in a sealed ampul on a steam bath  
 to give 68.6-70.0% (R2O)2P(O)SeCH2CH:CH2. I (R = BuO, R1 = Et2N; R = Et,  
 R1 = Et, EtO) were prepared analogously. Isomerization mechanisms were  
 discussed. The reactivity of I toward isomerization decreased in the  
 order of RR1 (PhO)2 > diethoxy > (PhO)(Et2N) > Et(EtO) > (BuO)(Et2N) > Et2.  
 IT 58722-80-8P  
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT  
 (Reactant or reagent)  
 RN (preparation and isomerization of)  
 58722-80-8 CAPLUS  
 CN Phosphorodiamidoselenonic acid, tetramethyl-, O-2-propenyl ester (9CI) (CA  
 INDEX NAME)



IT 25408-76-8  
 RL: RCT (Reactant); RACT (Reactant or reagent)  
 (reaction of, with allyl alc.)  
 RN 25408-76-8 CAPLUS  
 CN Phosphorodiamidoselenonic chloride, tetramethyl-, (8CI, 9CI) (CA INDEX  
 NAME)

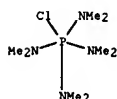


ACCESSION NUMBER: 1978:405919 CAPLUS  
 DOCUMENT NUMBER: 89:5919  
 TITLE: Phosphoric acid amides, -esteramides, and -esters and phosphonium compounds by direct synthesis from elementary phosphorus  
 INVENTOR(S): Hoffmann, Klaus Dieter; Lehmann, Bodo; Lehmann, Hans Albert; Riesel, Lothar; Schumann, Kurt  
 PATENT ASSIGNER(S): Ger. Dem. Rep.  
 SOURCE: Ger. (East), 8 pp.  
 CODEN: GEXXAS  
 DOCUMENT TYPE: Patent  
 LANGUAGE: German  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

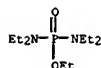
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DD 127187	A1	19770907	DD 1974-181729	19741016
DD 127187			DD 1974-181729	A1 19741016

PRIORITY APPLN. INFO.:  
 AB (R1R2N)3-nP(O)(OR3)n (R1, R2 = H, alkyl; R3 = alkyl, H; n = 0-3) were prepared from P and R1R2NH in the presence of H2O-alkanol and P(NR1R2)4X (R1, R2 as above, X = Cl, Br, I) from P and R1R2NH in the absence of H2O or alc. (7 compds. prepared). Thus, stirring 0.1 mol white P with 1 mol CCl4, 0.8 mol HNEt2, and 1.0 mol EtOH 8 h at 25° gave 50% (Et2N)2P(O)OEt, 17-20% (EtO)3PO, 15% (Et2N)3PO, and 12% Et2NP(O)(OEt)2. Passing a stream of HNEt2 into a mixture of 0.1 mol white P in 1.5 mol CCl4 3 h at 75° gave 90% (Me2N)4P+Cl-.

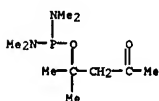
IT 66647-64-1P  
 RL: SPN (Synthetic preparation); PREP (Preparation)  
 (preparation of, from phosphorus and dimethylamine)  
 RN 66647-64-1 CAPLUS  
 CN Phosphoranetetramine, 1-chloro-N,N',N'',N''',N''',N''',N'''-octamethyl- (9CI) (CA INDEX NAME)



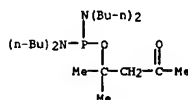
IT 3644-89-1P  
 RL: SPN (Synthetic preparation); PREP (Preparation)  
 (preparation of, from phosphorus, diethylamine, and ethanol)  
 RN 3644-89-1 CAPLUS  
 CN Phosphorodiamidic acid, tetraethyl-, ethyl ester (6CI, 7CI, 8CI, 9CI) (CA INDEX NAME)



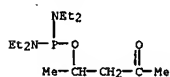
ACCESSION NUMBER: 1977:467788 CAPLUS  
 DOCUMENT NUMBER: 87:67788  
 TITLE: Reactions of keto alcohols with organophosphorus compounds. 8. Reaction of β-keto alcohols with amidophosphorous acid chlorides  
 AUTHOR(S): Mukhametov, F. S.; Stepashkina, L. V.; Ryzolozhenskii, N. I.  
 CORPORATE SOURCE: Inst. Org. Fiz. Khim. im. Arbutova, Kazan, USSR  
 SOURCE: Izvestiya Akademii Nauk SSSR, Seriya Khimicheskaya (1977), (5), 1134-8  
 CODEN: IASKA6; ISSN: 0002-3353  
 DOCUMENT TYPE: Journal  
 LANGUAGE: Russian  
 AB Treating RR1PCl (R = MeO, Me2CHO, BuO, Me2CHCH2O, EtCHMeO, C7H15O, Cl3CMe2O, Et, R1 = Et2N; R = R1 = Me2N, Et2N, Bu2N, (Me2CHCH2)2N) with HOCH2MeCH2COMe (R2 = H, Me) in the presence of Et3N gave 13 RR1POCR2MeCH2COMe (I) in 33.2-92.0% yield. Six I added S to give 43.2-86.1% RR1P(S)OCR2MeCH2COMe. I (R = MeO, R1 Et2N, R2 = Me) decomposed on standing to give MeO(Et2N)P(O)H and Me2C1CHCOMe. The presence of the amide group in I inhibits their isomerization to the resp. phosphonates.  
 IT 63616-48-8P 63616-49-9P 63616-51-3P  
 63616-52-4P  
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)  
 (preparation and reaction of, with sulfur)  
 RN 63616-48-8 CAPLUS  
 CN Phosphorodiamidous acid, tetramethyl-, 1,1-dimethyl-3-oxobutyl ester (9CI) (CA INDEX NAME)



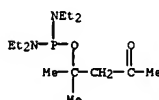
RN 63616-49-9 CAPLUS  
 CN Phosphorodiamidous acid, tetrabutyl-, 1,1-dimethyl-3-oxobutyl ester (9CI) (CA INDEX NAME)



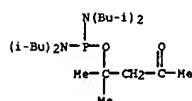
RN 63616-51-3 CAPLUS  
 CN Phosphorodiamidous acid, tetraethyl-, 1-methyl-3-oxobutyl ester (9CI) (CA INDEX NAME)



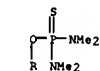
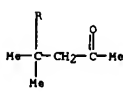
RN 63616-52-4 CAPLUS  
 CN Phosphorodiamidous acid, tetraethyl-, 1,1-dimethyl-3-oxobutyl ester (9CI) (CA INDEX NAME)



IT 63616-53-5P 63616-56-8P 63616-57-9P  
 63616-58-0P  
 RL: SPN (Synthetic preparation); PREP (Preparation)  
 (preparation of)  
 RN 63616-53-5 CAPLUS  
 CN Phosphorodiamidous acid, tetrakis(2-methylpropyl)-, 1,1-dimethyl-3-oxobutyl ester (9CI) (CA INDEX NAME)

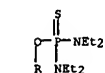
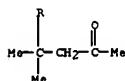


RN 63616-56-8 CAPLUS  
 CN Phosphorodiamidous acid, tetramethyl-, O-(1,1-dimethyl-3-oxobutyl) ester (9CI) (CA INDEX NAME)

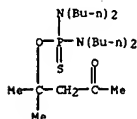




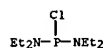
L6 ANSWER 26 OF 40 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)  
 RN 63616-57-9 CAPLUS  
 CN Phosphorodiamidothioic acid, tetraethyl-, O-(1,1-dimethyl-3-oxobutyl) ester (9CI) (CA INDEX NAME)



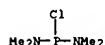
RN 63616-58-0 CAPLUS  
 CN Phosphorodiamidothioic acid, tetrabutyl-, O-(1,1-dimethyl-3-oxobutyl) ester (9CI) (CA INDEX NAME)



IT 685-83-6 3348-44-5 32597-22-1  
 63616-14-8 63616-59-1  
 RL: RCT (Reactant); RACT (Reactant or reagent)  
 (reaction of, with diacetone alc.)  
 RN 685-83-6 CAPLUS  
 CN Phosphorodiamidous chloride, tetraethyl- (6CI, 7CI, 8CI, 9CI) (CA INDEX NAME)

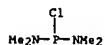


RN 3348-44-5 CAPLUS  
 CN Phosphorodiamidous chloride, tetramethyl- (6CI, 7CI, 8CI, 9CI) (CA INDEX NAME)

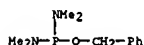


RN 32597-22-1 CAPLUS

L6 ANSWER 27 OF 40 CAPLUS COPYRIGHT 2007 ACS on STN  
 ACCESSION NUMBER: 1975:563734 CAPLUS  
 DOCUMENT NUMBER: 83:163734  
 TITLE: Phosphorodiamidites as synthetic intermediates in the preparation of diphenylacetylenes  
 AUTHOR(S): Hargis, J. Howard; Alley, W. Del  
 CORPORATE SOURCE: Dep. Chem., Auburn Univ., Auburn, AL, USA  
 SOURCE: Journal of the Chemical Society, Chemical Communications (1975), (15), 612-13  
 CODEN: JCCCAT; ISSN: 0022-4936  
 DOCUMENT TYPE: Journal  
 LANGUAGE: English  
 AB Addition of PCl3 to P(NMe2)3 gave ClP(NMe2)2, which on condensation with p-RC6H4CH2OH (R = H, OMe, Cl, F) gave the corresponding p-RC6H4CH2OP(NMe2)2 (I). Reaction of I with PhCCl3 gave (Me2N)2P(O)Cl and the corresponding p-RC6H4CH2CCl2Ph (II). Reaction of II with KOH-EtOH caused dehydrochlorination and formation of the corresponding alkynes, p-RC6H4C≡CPh. The mechanism postulated for the reaction between I and polyhalogenated compds. was supported by kinetic data obtained from the reactions of II with PhCCl3. Second-order kinetics were observed and a Hammett plot of these data gave a neg. ρ value in accordance with the rate determining nucleophilic attack of I on the halogen of PhCCl3, followed by rapid dealkylation of the phosphonium ion. The intermediacy of a polyhalogenated anion was supported by trapping of the CCl3 anion as CHCl3 when II (X = H) was treated with CCl4 in the presence of a proton donor e.g. MeOH.  
 IT 3348-44-5P  
 RL: SPN (Synthetic preparation); PREP (Preparation)  
 (preparation and condensation reaction with benzyl alcs.)  
 RN 3348-44-5 CAPLUS  
 CN Phosphorodiamidous chloride, tetramethyl- (6CI, 7CI, 8CI, 9CI) (CA INDEX NAME)

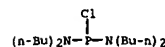


IT 53617-91-7P 57365-29-4P 57365-30-7P  
 57365-31-8P  
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)  
 (preparation and reaction with benzotrichloride, kinetics of)  
 RN 53617-91-7 CAPLUS  
 CN Phosphorodiamidous acid, tetramethyl-, phenylmethyl ester (9CI) (CA INDEX NAME)

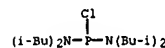


RN 57365-29-4 CAPLUS  
 CN Phosphorodiamidous acid, tetramethyl-, (4-chlorophenyl)methyl ester (9CI) (CA INDEX NAME)

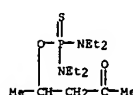
L6 ANSWER 26 OF 40 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)  
 CN Phosphorodiamidous chloride, tetrabutyl- (8CI, 9CI) (CA INDEX NAME)



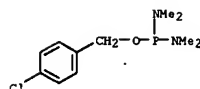
RN 63616-14-8 CAPLUS  
 CN Phosphorodiamidous chloride, tetrakis(2-methylpropyl)- (9CI) (CA INDEX NAME)



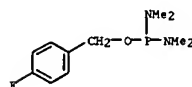
RN 63616-59-1 CAPLUS  
 CN Phosphorodiamidothioic acid, tetraethyl-, O-(1-methyl-3-oxobutyl) ester (9CI) (CA INDEX NAME)



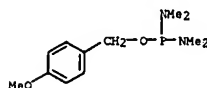
L6 ANSWER 27 OF 40 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)



RN 57365-30-7 CAPLUS  
 CN Phosphorodiamidous acid, tetramethyl-, (4-fluorophenyl)methyl ester (9CI) (CA INDEX NAME)



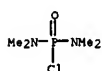
RN 57365-31-8 CAPLUS  
 CN Phosphorodiamidous acid, tetramethyl-, (4-methoxyphenyl)methyl ester (9CI) (CA INDEX NAME)



L6 ANSWER 28 OF 40 CAPLUS COPYRIGHT 2007 ACS on STN  
 ACCESSION NUMBER: 1975:478638 CAPLUS  
 DOCUMENT NUMBER: 83:78638  
 TITLE: Propargylic phosphorodiamidates  
 INVENTOR(S): Sturtz, Georges; Corbel, Bernard; Pagan, Jean P.;  
 Vuilleroz de Silly, Patrick  
 PATENT ASSIGNEE(S): Agence Nationale de Valorisation de la Recherche, Fr.  
 SOURCE: Fr. Demande, 16 pp.  
 CODEN: FROXBL  
 DOCUMENT TYPE: Patent  
 LANGUAGE: French  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

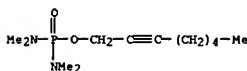
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
FR 2236871	A1	19750207	FR 1973-25634	19730712
FR 2236871	B1	19760618		

PRIORITY APPLN. INFO.: FR 1973-25634 A 19730712  
 AB (R2N)2P(O)CH2C.tpbond.CR1 (R2N = Me2N, Et2N, Bu2N, 1-aziridinyl, 1-pyrrolidinyl, piperidino, or morpholino; R1 = H) were prepared in 54-89% yield by reaction of Cl2P(O)CH2C.tpbond.CH with R2NH, and these products were alkylated with MeI and with n-C5H11I to give (R2N)2P(O)CH2C.tpbond.CR1 (R2N = same meaning, R1 = Me or n-C5H11) in 50-95% yield. (Me2N)2P(O)CH2C.tpbond.CR (R = Et, Pr, or Bu) were similarly prepared in 59-77% yield. (Me2N)2P(O)CH2C.tpbond.CH also reacted with BuLi and R2CO to give 51-67% (Me2N)2P(O)CH2C.tpbond.CCR2OH (R = Me or Cl, or R2C = cyclopentyl, cyclohexyl, or 2-bornyl).  
 IT 1605-65-8P  
 RI: IMF (Industrial manufacture); RCT (Reactant); PREP (Preparation); RACT (Reactant or reagent) (manufacture and esterification of, with acetylinic alcs.)  
 RN 1605-65-8 CAPLUS  
 CN Phosphorodiamidic chloride, tetramethyl- (6CI, 7CI, 8CI, 9CI) (CA INDEX NAME)

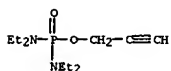


IT 53799-85-2P 53799-88-5P 53799-89-6P  
 53799-90-9P 53799-91-0P 53799-92-1P  
 56305-14-7P 56305-15-8P 56305-20-5P  
 56305-21-6P 56305-22-7P 56305-23-8P  
 56305-30-7P 56305-31-8P 56305-32-9P  
 56305-33-0P 56305-34-1P 56305-35-2P  
 56305-36-3P 56305-37-4P  
 RI: SPN (Synthetic preparation); PREP (Preparation) (preparation of)  
 RN 53799-85-2 CAPLUS  
 CN Phosphorodiamidic acid, tetramethyl-, 2-propynyl ester (9CI) (CA INDEX NAME)

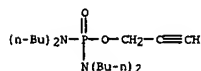
L6 ANSWER 28 OF 40 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)



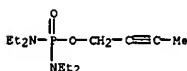
RN 56305-14-7 CAPLUS  
 CN Phosphorodiamidic acid, tetraethyl-, 2-propynyl ester (9CI) (CA INDEX NAME)



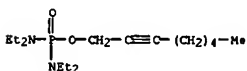
RN 56305-15-8 CAPLUS  
 CN Phosphorodiamidic acid, tetrabutyl-, 2-propynyl ester (9CI) (CA INDEX NAME)



RN 56305-20-5 CAPLUS  
 CN Phosphorodiamidic acid, tetraethyl-, 2-butyryl ester (9CI) (CA INDEX NAME)

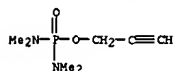


RN 56305-21-6 CAPLUS  
 CN Phosphorodiamidic acid, tetraethyl-, 2-octynyl ester (9CI) (CA INDEX NAME)

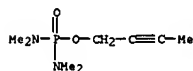


RN 56305-22-7 CAPLUS  
 CN Phosphorodiamidic acid, tetrabutyl-, 2-butyryl ester (9CI) (CA INDEX NAME)

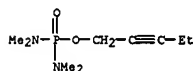
L6 ANSWER 28 OF 40 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)



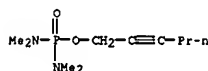
RN 53799-88-5 CAPLUS  
 CN Phosphorodiamidic acid, tetramethyl-, 2-butyryl ester (9CI) (CA INDEX NAME)



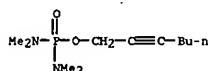
RN 53799-89-6 CAPLUS  
 CN Phosphorodiamidic acid, tetramethyl-, 2-pentynyl ester (9CI) (CA INDEX NAME)



RN 53799-90-9 CAPLUS  
 CN Phosphorodiamidic acid, tetramethyl-, 2-hexynyl ester (9CI) (CA INDEX NAME)

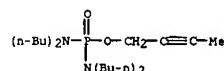


RN 53799-91-0 CAPLUS  
 CN Phosphorodiamidic acid, tetramethyl-, 2-heptynyl ester (9CI) (CA INDEX NAME)

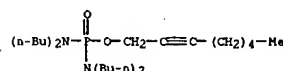


RN 53799-92-1 CAPLUS  
 CN Phosphorodiamidic acid, tetramethyl-, 2-octynyl ester (9CI) (CA INDEX NAME)

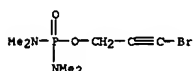
L6 ANSWER 28 OF 40 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)



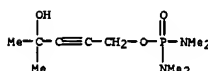
RN 56305-23-8 CAPLUS  
 CN Phosphorodiamidic acid, tetrabutyl-, 2-octynyl ester (9CI) (CA INDEX NAME)



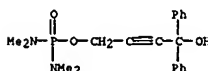
RN 56305-30-7 CAPLUS  
 CN Phosphorodiamidic acid, tetramethyl-, 3-bromo-2-propynyl ester (9CI) (CA INDEX NAME)



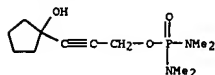
RN 56305-31-8 CAPLUS  
 CN Phosphorodiamidic acid, tetramethyl-, 4-hydroxy-4-methyl-2-pentynyl ester (9CI) (CA INDEX NAME)



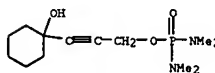
RN 56305-32-9 CAPLUS  
 CN Phosphorodiamidic acid, tetramethyl-, 4-hydroxy-4,4-diphenyl-2-butyryl ester (9CI) (CA INDEX NAME)



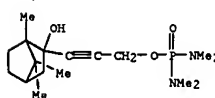
RN 56305-33-0 CAPLUS  
 CN Phosphorodiamidic acid, tetramethyl-, 3-(1-hydroxycyclopentyl)-2-propynyl ester (9CI) (CA INDEX NAME)



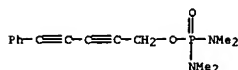
RN 56305-34-1 CAPLUS  
CN Phosphorodiamidic acid, tetramethyl-, 3-(1-hydroxycyclopentyl)-2-propynyl ester (9CI) (CA INDEX NAME)



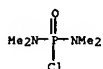
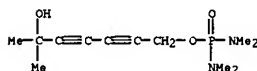
RN 56305-35-2 CAPLUS  
CN Phosphorodiamidic acid, tetramethyl-, 3-(2-hydroxy-1,7,7-trimethylbicyclo[2.2.1]hept-2-yl)-2-propynyl ester (9CI) (CA INDEX NAME)



RN 56305-36-3 CAPLUS  
CN Phosphorodiamidic acid, tetramethyl-, 5-phenyl-2,4-pentadiynyl ester (9CI) (CA INDEX NAME)



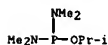
RN 56305-37-4 CAPLUS  
CN Phosphorodiamidic acid, tetramethyl-, 6-hydroxy-6-methyl-2,4-heptadiynyl ester (9CI) (CA INDEX NAME)



RN 3402-24-2 CAPLUS  
CN Phosphorodiamidic acid, tetramethyl-, ethyl ester (6CI, 7CI, 8CI, 9CI) (CA INDEX NAME)

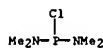


RN 36055-83-1 CAPLUS  
CN Phosphorodiamidic acid, tetramethyl-, 1-methylethyl ester (9CI) (CA INDEX NAME)

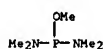


ACCESSION NUMBER: 1974:519849 CAPLUS  
DOCUMENT NUMBER: 81:119849  
TITLE: Novel and versatile synthetic reagent. Monoalkyl esters of tetraalkylphosphorodiamidic acid  
AUTHOR(S): Hargis, J. H.; Alley, W. D.  
CORPORATE SOURCE: Dep. Chem., Auburn Univ., Auburn, AL, USA  
SOURCE: Journal of the American Chemical Society (1974), 96(18), 5927-8  
CODEN: JACSAT; ISSN: 0002-7863

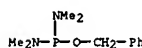
DOCUMENT TYPE: Journal  
LANGUAGE: English  
AB Esters (Me<sub>2</sub>N)2POR (R = Me, PhCH<sub>2</sub>) have been shown to react rapidly and in good yield with polyhalogenated hydrocarbons CCl<sub>4</sub>, PhCCl<sub>3</sub>, and CCl<sub>3</sub>CO<sub>2</sub>Et to give RCCl<sub>3</sub>, RCCl<sub>2</sub>Ph, and RCCl<sub>2</sub>CO<sub>2</sub>Et. A mechanism involving nucleophilic attack of P upon Cl is suggested.  
IT 3348-44-5P  
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)  
CN 3348-44-5 CAPLUS  
CN Phosphorodiamidic chloride, tetramethyl-, (6CI, 7CI, 8CI, 9CI) (CA INDEX NAME)



IT 17166-16-4P 53617-91-7P  
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)  
CN 17166-16-4 CAPLUS  
CN Phosphorodiamidic acid, tetramethyl-, methyl ester (8CI, 9CI) (CA INDEX NAME)



RN 53617-91-7 CAPLUS  
CN Phosphorodiamidic acid, tetramethyl-, phenylmethyl ester (9CI) (CA INDEX NAME)

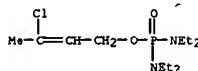


IT 1605-65-8P 3402-24-2P 36055-83-1P  
RL: SPN (Synthetic preparation); PREP (Preparation)  
CN 1605-65-8 CAPLUS  
CN Phosphorodiamidic chloride, tetramethyl-, (6CI, 7CI, 8CI, 9CI) (CA INDEX NAME)

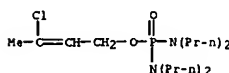
ACCESSION NUMBER: 1974:47477 CAPLUS  
DOCUMENT NUMBER: 80:47477  
TITLE: N-Alkyl(or alkenyl) O-(3-chloro-2-butenyl)phosphorodiamidates  
INVENTOR(S): Sugiyama, Hiroshi; Takita, Kiyoshi; Ito, Hideo  
PATENT ASSIGNEE(S): Kumiai Chemical Industry Co., Ltd.  
SOURCE: Jpn. Tokkyo Koho, 5 pp.  
CODEN: JAXXAD

DOCUMENT TYPE: Patent  
LANGUAGE: Japanese  
FAMILY ACC. NUM. COUNT: 1  
PATENT INFORMATION:

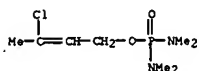
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 48032095	B	19731004	JP 1970-45174	19700528
PRIORITY APPLN. INFO.:				
JP 1970-45174 19700528				
AB R1R2NP(O)(NR3R4)OCH2CH:CClMe (I; R1, R3 = H, alkyl, alkenyl; R2, R4 = alkyl, alkenyl) bactericides and fungicides, were prepared by treating R1R2NP(O)(NR3R4)Cl (II) with MeCCl:CHCH2OH (III). E.g., 19 g II (R1-4 = Et) and 8.5 g III were stirred with 5.8 g KOH and the mixture heated 15 hr at 80-90° to give 82% corresponding I. Similarly prepared were the following I (R1, R2, R3, and R4 given): Pr, Pr, Pr Pr; Me, Me, Me, Me; H, iso-Pr, H, iso-Pr; H, allyl, H, allyl.				
IT 51367-86-3P 51367-87-4P 51367-88-5P				
RL: SPN (Synthetic preparation); PREP (Preparation)				
RN 51367-86-3 CAPLUS				
CN 51367-86-3 CAPLUS				
CN Phosphorodiamidic acid, tetraethyl-, 3-chloro-2-butenyl ester (9CI) (CA INDEX NAME)				



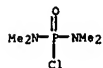
RN 51367-87-4 CAPLUS  
CN Phosphorodiamidic acid, tetrapropyl-, 3-chloro-2-butenyl ester (9CI) (CA INDEX NAME)



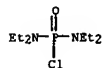
RN 51367-88-5 CAPLUS  
CN Phosphorodiamidic acid, tetramethyl-, 3-chloro-2-butenyl ester (9CI) (CA INDEX NAME)



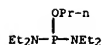
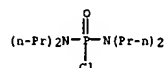
IT 1605-65-8 1794-24-7 40881-95-6  
 RL: RCT (Reactant); RACT (Reactant or reagent)  
 (reaction of, with chlorobutyl alc.)  
 RN 1605-65-8 CAPLUS  
 CN Phosphorodiamidic chloride, tetramethyl- (6CI, 7CI, 8CI, 9CI) (CA INDEX NAME)



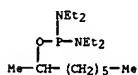
RN 1794-24-7 CAPLUS  
 CN Phosphorodiamidic chloride, tetraethyl- (6CI, 7CI, 8CI, 9CI) (CA INDEX NAME)



RN 40881-95-6 CAPLUS  
 CN Phosphorodiamidic chloride, tetrapropyl- (9CI) (CA INDEX NAME)

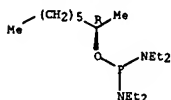


RN 34881-27-1 CAPLUS  
 CN Phosphorodiamidous acid, tetraethyl-, 1-methylheptyl ester (9CI) (CA INDEX NAME)

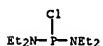


RN 36404-22-5 CAPLUS  
 CN Phosphorodiamidous acid, tetraethyl-, 1-methylheptyl ester, (R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



IT 685-83-6  
 RL: RCT (Reactant); RACT (Reactant or reagent)  
 (reaction of, with octanol)  
 RN 685-83-6 CAPLUS  
 CN Phosphorodiamidous chloride, tetraethyl- (6CI, 7CI, 8CI, 9CI) (CA INDEX NAME)

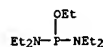


ACCESSION NUMBER: 1972:59101 CAPLUS  
 DOCUMENT NUMBER: 76:59101  
 TITLE: Preparation of carboxylic esters and phosphoric esters by the activation of alcohols  
 AUTHOR(S): Mitsuhashi, Oyo; Eguchi, Masahiko  
 CORPORATE SOURCE: Coll. Sci. Eng., Aoyama Gakuin Univ., Tokyo, Japan  
 SOURCE: Bulletin of the Chemical Society of Japan (1971), 44(12), 3427-30  
 CODEN: BCSJAH; ISSN: 0009-2673

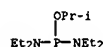
DOCUMENT TYPE: Journal  
 LANGUAGE: English  
 OTHER SOURCE(S): CASREACT 76:59101

AB The reaction of dibenzyl H phosphate with alcs. in the presence of di-Et a zodicarboxylate and PhOP, followed by catalytic hydrogenation, resulted in the formation of the corresponding alkyl di-H phosphates. When p-tolyl di-H phosphate and EtOH were allowed to react with di-Et azodicarboxylate and PhOP, Et p-tolyl H phosphate and di-Et p-tolyl phosphate were obtained. On the other hand, dipyrindinium p-tolyl phosphate gave Et p-tolyl H phosphate and di-p-tolyl pyrophosphate. The reaction of alkyl N,N'-tetraethylphosphorodiamidites with carboxylic acids in the presence of di-Et azodicarboxylate resulted in the formation of corresponding carboxylic esters. When these reactions (benzoylation) were carried out with the use of optically active 2-octanol, 2-octyl benzoate was obtained with inverted configuration.

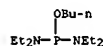
IT 2632-88-4 3402-28-6 3402-30-0  
 30504-40-6 34881-27-1 36404-22-5  
 RL: RCT (Reactant); RACT (Reactant or reagent)  
 (reaction of, with acid in presence of diethyl azodicarboxylate)  
 RN 2632-88-4 CAPLUS  
 CN Phosphorodiamidous acid, tetraethyl-, ethyl ester (7CI, 8CI, 9CI) (CA INDEX NAME)



RN 3402-28-6 CAPLUS  
 CN Phosphorodiamidous acid, tetraethyl-, 1-methylethyl ester (9CI) (CA INDEX NAME)



RN 3402-30-0 CAPLUS  
 CN Phosphorodiamidous acid, tetraethyl-, butyl ester (7CI, 8CI, 9CI) (CA INDEX NAME)



RN 30504-40-6 CAPLUS  
 CN Phosphorodiamidous acid, tetraethyl-, propyl ester (9CI) (CA INDEX NAME)

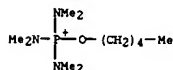
ACCESSION NUMBER: 1971:488039 CAPLUS  
 DOCUMENT NUMBER: 75:88039  
 TITLE: Alkoxy phosphonium salts. I. Preparation, stability, and reactivity of alkoxytris(dimethylamino)phosphonium salts containing primary alkyl groups  
 AUTHOR(S): Castro, Bertrand; Selve, Claude  
 CORPORATE SOURCE: Lab. Chim. Org., Fac. Sci., Nancy, Fr.  
 SOURCE: Bulletin de la Societe Chimique de France (1971), (6), 2296-8  
 CODEN: BSCFAS; ISSN: 0037-8968

DOCUMENT TYPE: Journal  
 LANGUAGE: French  
 AB Primary alkanols were treated with P(NMe2)3-CCl4 to give phosphonium chlorides ROP+(NMe2)3 Cl- (I). I were treated in situ with nucleophiles to give P(O)(NMe2)3 (II). Thus, PhCH2OH was treated with P(NMe2)3-CCl4 to give (benzyloxy)tris(dimethylamino)phosphonium chloride (III) Similarly prepared were I (R = amyl, hexyl, n-heptyl). III was treated with NaN3 to give II and PhCH2N3. Similarly, I were treated with NH4SCN, PhSH, KCN, and KI to give the corresponding RSCN, RSPH, RCN, and RI. RP+(NMe2)3 ClO4- (R = PhCH2O, pentyloxy, hexyloxy, heptyloxy, Cl) was isolated and their NMR spectra taken.

IT 32798-28-0P 32798-29-1P 32798-30-4P  
 32798-11-5P 32798-11-3P  
 RL: SPN (Synthetic preparation); PREP (Preparation)  
 (preparation of)  
 RN 32798-28-0 CAPLUS  
 CN Phosphorus(1+), tris(N-methylmethanaminato) (pentyloxy)-, (T-4)-, perchlorate (9CI) (CA INDEX NAME)

CH 1

CRN 45168-55-6  
 CHF C11 H29 N3 O P



CH 2

CRN 14797-73-0  
 CHF Cl O4

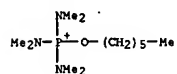


RN 32798-29-1 CAPLUS  
 CN Phosphorus(1+), tris(dimethylamino) (hexyloxy)-, perchlorate (8CI) (CA INDEX NAME)

L6 ANSWER 32 OF 40 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

CH 1

CRN 45188-07-6  
CHF C12 H31 N3 O P



CH 2

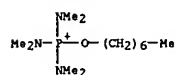
CRN 14797-73-0  
CHF C1 O4



RN 32798-30-4 CAPLUS  
CN Phosphorus(1+), tris(dimethylamino)(heptyloxy)-, perchlorate (8CI) (CA INDEX NAME)

CH 1

CRN 45213-16-9  
CHF C13 H33 N3 O P



CH 2

CRN 14797-73-0  
CHF C1 O4



RN 32798-31-5 CAPLUS  
CN Phosphorus(1+), chlorotris(N-methylmethanaminato)-, (T-4)-, perchlorate

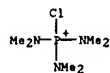
L6 ANSWER 32 OF 40 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

L6 ANSWER 32 OF 40 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

(9CI) (CA INDEX NAME)

CH 1

CRN 32803-80-8  
CHF C6 H18 Cl N3 P



CH 2

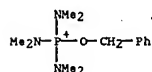
CRN 14797-73-0  
CHF C1 O4



RN 32978-11-3 CAPLUS  
CN Phosphorus(1+), (benzenemethanolato)tris(N-methylmethanaminato)-, (T-4)-, perchlorate (9CI) (CA INDEX NAME)

CH 1

CRN 46852-57-7  
CHF C13 H25 N3 O P



CH 2

CRN 14797-73-0  
CHF C1 O4

